ADAM TECH

# eCATALOG 2026

# Product Categories

TABLE OF CONTENTS


**Spring Loaded Connectors, Pins, Pads & Magnetic Assemblies (PH Series) ..... 4**
- Discrete Spring Loaded Pins ..... 6
- Waterproof Discrete Spring Loaded Pins ..... 6
- Spring Loaded Connectors ..... 7
- Spring Loaded ..... 7
- Special Spring Loaded ..... 7
- Mating Pad Connectors ..... 7
- Magnetic Cable Assemblies and Connectors ..... 8

**Switches (SW Series) ..... 9**
- Toggle Switches ..... 9
- Rocker Switches ..... 11
- Keylock Switches ..... 13
- Pushbutton Switches ..... 14

**Electric Vehicle Charging Cables (EV Series) ..... 18**
- Standard Electric Vehicle Charging Cables ..... 18
- NACS Electric Vehicle Charging Cables ..... 19
- Portable NACS Electric Vehicle Charging Cables ..... 20

**Fiber Optic Adapters (FO Series) ..... 21**

**FAKRA Connectors (RF, HSD & MHSD Series) ..... 22**
- Standard FAKRA Connectors ..... 23
- High Speed Data (HSD) FAKRA Connectors ..... 24
- Mini FAKRA Connectors ..... 25

**High Speed Modular Twisted-Pair Data (HT-X Series) ..... 26**

**Audio Jacks & Plugs (ASJ & ASP Series) ..... 28**
- Stereo & Mono Earphone Jacks ..... 28

**DC Power Jacks & Plugs (ADC & ADP Series) ..... 29**

**Waterproof Audio & DC Power Jacks ..... 31**

**Circular Industrial Connectors - Waterproof, Ruggedized & High Current (SD Series) ..... 32**
- Waterproof M8 & M12 Styles ..... 33
- Waterproof Circular Styles ..... 34
- Waterproof RJ45 & USB ..... 35

**Push Pull Connectors (MMI Series) ..... 36**

**Automotive Connectors (ADT Series) ..... 38**

**RF Cable Assemblies (RF Series) ..... 39**

**Antennas (ANT Series) ..... 40**

**Flat Flex Cables (FFC Series) ..... 41**

**SFP (SFC, SFCJ, XFC & SFF Series) ..... 44**
- Small Form Factor Pluggable Connectors and Cages ..... 44

**QSFP (QSFP & QSFC Series) ..... 45**
- Quad Small Form Factor Pluggable Connectors and Cages 45

**Modular Jacks, Plugs, Adapters & Couplers (MTP, MTJ & MTJG Series) ..... 46**
- Modular Jacks with Integrated Magnetics ..... 47
- High Speed Jacks - Capable of 1GB-10GB ..... 49
- Modular Jacks - Single Port ..... 50
- Modular Jacks - Multi Port ..... 53
- Modular Plugs ..... 54
- High Speed Modular Plugs ..... 55
- Modular Jacks - Keystone Style ..... 56
- Modular Jacks With Wire Leads ..... 57
- Modular Jacks With USB ..... 58
- RJ45 Couplers & Adapters ..... 59

**Fuse Holders (FH Series) ..... 60**

**USB Connectors(MCR, MUSB & USB Series) ..... 61**
- USB ..... 61
- HSecurLinC USB Latching Connectors and Cables ..... 64

**DisplayPort Connectors (DPC & MDPC Series) ..... 65**
- Displayport & Mini Displayport ..... 65

**HDMI Connectors (HDMI Series) ..... 66**
- HDMI, Mini & Micro HDMI ..... 66
- HDMI 2.1 Connector and Cables ..... 67

**Miniature Disconnecting Wire to Board Connectors and Systems (HHS, SH & CH Series) ..... 68**
- .031" [0.8mm] Headers ..... 69
- .031" [0.8mm] Wire Housing & Crimp Terminal ..... 70
- .039" [1.0mm] Headers, Single & Dual Row ..... 71
- .039" [1.0mm] Wire Housing & Crimp Terminal, Single & Dual Row ..... 72
- .049" [1.25mm] Headers, Single & Dual Row ..... 73
- .049" [1.25mm] Wire Housing & Crimp Terminal, Single & Dual Row ..... 75
- .059" [1.5mm] Headers ..... 76
- .059" [1.5mm] Wire Housing & Crimp Terminal ..... 77
- .079" [2.0mm] Headers, Single & Dual Row ..... 78
- .079" [2.0mm] Wire Housing & Crimp Terminal, Single & Dual Row ..... 80
- .098" [2.5mm] Headers, Single & Dual Row ..... 81
- .098" [2.5mm] Wire Housing & Crimp Terminal, Single & Dual Row ..... 82

**Wire to Board Power Connectors and Systems (DMX Series) ..... 83**
- .100" [2.54mm] Headers ..... 84
- .100" [2.54mm] Wire Housing & Crimp Terminals ..... 85
- .118" [3.0mm] Headers ..... 86
- .118" [3.0mm] Wire Housing & Crimp Terminals ..... 88
- .137" [3.5mm] Headers ..... 89
- .137" [3.5mm] Wire Housing & Crimp Terminals ..... 90
- .163" [4.14mm] Headers ..... 91
- .163" [4.14mm] Wire Housing & Crimp Terminals ..... 92
- .165" [4.2mm] Headers ..... 93
- .165" [4.2mm] Wire Housing & Crimp Terminals ..... 95
- .165" [4.2mm] Blind Mate Wire Housing & Header ..... 96
- .250" [6.35mm] Headers ..... 97
- .250" [6.35mm] Wire Housing & Crimp Terminals ..... 98

**Wire to Wire Power Connectors and Systems (DMX Series) ..... 99**
- .098" [2.50mm] Male Wire Housing & Crimp Terminal ..... 100
- .098" [2.50mm] Female Wire Housing & Crimp Terminal ..... 101
- .118" [3.0mm] Male Wire Housing & Crimp Terminal ..... 102
- .118" [3.0mm] Female Wire Housing & Crimp Terminal ..... 103
- .163" [4.14mm] Male & Female Wire Housing & Crimp Terminal ..... 104
- .177" [4.5mm] Male & Female Wire Housing & Crimp Terminal ..... 105
- .198" [5.03mm] Male & Female Wire Housing ..... 106
- .264" [6.70mm] Male & Female Wire Housing & Crimp Terminal ..... 107
- Secur-Seal Wire-to-Wire Connectors ..... 108

**Wire to Board & Wire to Wire Connectors and Systems (CDR, CDH, LHX & MTD Series) ..... 109**
- Disconnecting Wire to Board .100" [2.54mm] to .156" [3.96mm] Pitch ..... 109
- IDC Wire to Board ..... 111

**Spring Connectors & Battery Systems (BH, BS & MBC Series) ..... 112**
- Alkaline, Lithium, Mobile & Snaps ..... 112
- Battery Holders ..... 113

**AC Inlets & Outlets (IEC Series) ..... 114**
- IEC 320 & Mini IEC Connectors ..... 114

**Power Line Filters (PLF Series) ..... 116**

**DC-DC Converters (DCDC Series) ..... 119**

**AC-DC Converters (ACDC Series) ..... 121**

**Energy Storage Connectors (ESF & ESM Series) ..... 122**

**High Current Terminals (HCT Series) ..... 124**

**Board Level Heat Sinks (HSK Series) ..... 125**

**Transceivers (TV Series) ..... 127**

**Radio Frequency Connectors (RF Series) ..... 128**
- RF Connectors ..... 128
- W.FL, MMCX & MCX ..... 129
- MCX & BNC ..... 130
- BNC ..... 131
- BNC, SMA, MHF & UHF ..... 133
- TNC, Mini UHF, FME, N, F & SMB ..... 134

# Product Categories

TABLE OF CONTENTS


**Board to Board & High Speed Board to Board (BB & ESMC Series) ..... 135**
- 0.3mm, 0.4mm, 0.5mm, 0.635mm, 0.8mm & 1.00mm Male & Female Set ..... 135
- ESMC Board-to-Board Power Connectors ..... 138
- ESMC Board-to-Board Signal Connectors ..... 139

**PLCC Chip Carrier Sockets (PLCC Series) ..... 140**

**Terminal Blocks (TB & TD Series) ..... 141**

**DIN Rail Terminal Blocks (REB Series) ..... 144**

**Europa Strips (TD Series) ..... 146**

**DIN 41612 Connectors (DIN Series) ..... 147**

**D-Sub Connectors (DXXX Series) ..... 148**
- Right Angle .318" [8.08] Mount ..... 148
- Right Angle .318" [8.08] Mounting Options ..... 149
- Right Angle .590" [15.00] Mount ..... 150
- Right Angle .590" [15.00] Mounting Options ..... 151
- Right Angle With Machined Contacts ..... 152
- Straight PCB & Wire Wrap PCB Tail ..... 153
- Combination D-Sub With Coax Or Power ..... 154
- Right Angle .197" [5.00] Slimline ..... 157
- Right Angle SMT .118" [3.00] Slimline ..... 158
- IDC Flat Cable Termination ..... 159
- Solder Cup Termination ..... 160
- Crimp And Poke System ..... 161
- Crimp And Poke System - Contacts ..... 162
- Flush Mount Straight PCB Tail ..... 163

**High Density D-Sub (HDL & HDT Series) ..... 164**
- Solder Cup Termination ..... 164
- Straight PCB Tail ..... 165
- Right Angle PCB Mount ..... 166
- Crimp And Poke System ..... 167

**D-Sub Connectors (DHD Series) ..... 168**
- Backshells, Hardware, And Jackscrews ..... 168
- Mounting Options ..... 169
- Dual Port, Right Angle ..... 170
- Mounting Options ..... 171

**Flex Circuit Connectors (PCB & PCA Series) ..... 172**
- LIF Flex Circuit Connectors (Low Insertion Force) ..... 172
- ZIF Flex Circuit Connectors (Zero Insertion Force) ..... 173

**Euro Blocks (EB Series) ..... 174**
- Wire To Board, Headers, Plugs & Sockets ..... 174

**IC Sockets (IC & ISD Series) ..... 177**
- Dual Row Sockets ..... 177

**Memory Connectors & Sockets (MS, SD & CF Series) ..... 178**

**DIN Connectors & Plugs (DJ, DJIN, MDJ & MPJ Series) ..... 179**
- Circular DIN Connectors ..... 179
- Mini DIN Connectors ..... 180
- Power DIN Connectors ..... 181

**Pin Headers (SPH, MPH, HPH, PH & DHPH Series) ..... 182**
- .031" [0.8mm], Dual Row ..... 183
- .039" [1.0mm], Dual Row ..... 184
- .050" [1.27mm] Single and Dual Row ..... 185
- .050" [1.27mm] Single and Dual Row, Dual Insulator ..... 186
- .079" [2.0mm] Single and Dual Row ..... 187
- .079" [2.0mm] Single and Dual Row, Dual Insulator ..... 188
- .100" [2.54mm] Single and Dual Row ..... 189
- .100" [2.54mm] Single and Dual Row, Dual Insulator ..... 190

**Shrouded Pin Header Set (HSH & HFH Series) ..... 191**
- .050" [1.27mm] Male ..... 191
- .050" [1.27mm] Female ..... 192

**Receptacle Strips (SRS2, MR2S, HRS, 2RS & RS Series) ..... 193**
- Single And Dual Row Receptacle Strips ..... 193
- .031" [0.8mm] Dual Row ..... 194
- .039" [1.0mm] Dual Row ..... 195
- .050" [1.27mm] Single and Dual Row ..... 196
- .079" [2.0mm] Single and Dual Row ..... 197
- .079" [2.0mm] Single and Dual Row Elevated ..... 198
- .100" [2.54mm] Single and Dual Row ..... 199
- .100" [2.54mm] Single and Dual Row Elevated ..... 200

**SATA Connectors (SATA Series) ..... 201**
- SATA & eSATA ..... 201

**Shrouded Headers (HBHR, 2BHR & BHR Series) ..... 203**
- .050" [1.27mm], Dual Row ..... 204
- .079" [2.0mm], Dual Row ..... 205
- .100" [2.54mm], Dual Row ..... 207

**Latching Headers (HMHR, 2MHR & MHR Series) ..... 208**
- .050" [1.27mm], Dual Row ..... 209
- .079" [2.0mm], Dual Row ..... 210
- .100" [2.54mm], Dual Row ..... 211

**Shunts (HMS & MS Series) ..... 212**
- .050", 2mm, .100" & .200" Centerline ..... 212

**DVI Connectors (DVI Series) ..... 214**
- Digital Video Interface ..... 214

**Miniature Ribbon Connectors (MR Series) ..... 215**

**Card Edge Connectors (CE & HMCA Series) ..... 216**

**Mini Flex Connectors (MPH, MPF & MPC Series) ..... 217**

**Machine Headers & Receptacles (SMC Series) ..... 218**
- Screw Machine Sockets ..... 218
- Screw Machine IC Sockets And DIP Terminals ..... 219

**Machine Headers & Receptacles (MCT Series) ..... 220**
- Screw Machine Terminal Strips (Headers) ..... 220

**IDC Connectors (FC, MHF, FTR & FDP Series) ..... 221**
- Sockets, Latching Headers, Box Headers, Card Edge, DIP & Transition Plugs ..... 221
- IDC Sockets ..... 222
- IDC Latching Headers ..... 223
- IDC Box Headers ..... 224
- IDC Card Edge ..... 225
- IDC DIP & Transition Plugs ..... 226

**Receptacles with Board Hooks (PCE & PCD Series) ..... 227**
- .100" & .156" Centerline ..... 227

**Cable Accessories ..... 228**

# Spring Loaded Connectors, Pins, Pads & Magnetic Assemblies

Adam Tech Spring Loaded Pins consist of a specially designed barrel and steel spring in either a discrete form or integrated into an insulator carrier/magnetic assembly. They are used in many industries across a wide range of applications to make a secure, high reliability connection. This series is highly customizable to meet specific stroke lengths, heights, and electrical capabilities. High-temp plastics are used for our insulators and unlimited molding designs allow for many different shapes and styles to be created for specific applications.



## FEATURES & SPECIFICATIONS

### FEATURES:
High Reliability, corrects connection between uneven surfaces and satisfies high vibration connection requirements
Increased durability for heavy duty applications
Highly Customizable-Size, stroke, shape, pin count, etc.
Low Cost and Easily Integrated

### PACKAGING:
Anti-ESD plastic trays or tubes

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no.  E224053

### SPECIFICATIONS:

### Material:
Standard insulator: PA46 Rated 94-V0
Optional Hi-Temp insulator: LCP
Insulator Color:  Black
Shell: Copper Alloy
Spring: Stainless Steel
Contact Plating: Golf Flash over Nickel Underplate Overall

### Electrical:
Operating Voltage: 12 Volts
Current Rating: 1 – 3 Amps depending on spring height and construction option
Contact Resistance at working stroke: 20 mohms max before test, 60 mohms max after test
Insulation Resistance:  100 mohm min
Dielectric Withstanding Voltage: 100 VRMS @ 60 HZ

### Mechanical:
Spring Force: 90 +/- 20gf @ 1mm working stroke (3.30mm)
70 +/- 20gf @ 1mm working stroke (4.30mm and 5.30mm)
Full Stroke: 1.40mm

### Temperature Rating:
Operating Temperature: -30C to +85C

## DISCRETE POGO PIN PART NUMBER CONFIGURATION

**PH - MH5F - 1113 - 200**

| SERIES | GENDER, MOUNTING ORIENTATION & TYPE | HEIGHT | | PITCH |
|---|---|---|---|---|
| **PH** = *Discrete Pogo Pin* | *1st Character for Gender*<br>**M** = *Male*<br>**F** = *Female*<br><br>*2nd Character for Mounting Orientation*<br>**V** = *Straight Mount*<br>**H** = *Right Angle Mount*<br><br>*3rd Character for Type*<br>**F** = *SMT*<br>**E** = *SIDE SMT*<br>**P** = *DIP*<br>**D** = *Double Head*<br>**S** = *Solder Cup*<br>**T** = *Thread*<br>**5F** = *High Current 5A SMT*<br>**5P** = *High Current 5A DIP*<br>**5S** = *High Current 5A Solder Cup*<br>**AF** = *High Current 10A SMT*<br>**C** = *Customized Spec*<br>**MP** = *Magnet DIP*<br>**CC** = *Customized Cable*<br>**RP**= *Reverse Pogo pin* | *First Two Characters for Barrel Height*<br>**11** = *1.10mm*<br>**13** = *1.30mm*<br>**15** = *1.50mm*<br>**17** = *1.70mm*<br>**19** = *1.90mm*<br>**20** = *2.00mm*<br>**23** = *2.30mm*<br>**26** = *2.60mm*<br>**30** = *3.00mm*<br>**33** = *3.30mm*<br>**36** = *3.60mm*<br>**43** = *4.30mm*<br>**50** = *5.00mm*<br>**53** = *5.30mm*<br>**55** = *5.50mm*<br>**73** = *7.30mm*<br>**A3** = *10.30mm*<br>**C3** = *12.30mm* | *Last Two Characters for Initial Height*<br>**13** = *1.30mm*<br>**15** = *1.50mm*<br>**17**= *1.70mm*<br>**19** = *1.90mm*<br>**21** = *2.10mm*<br>**23** = *2.30mm*<br>**25** = *2.50mm*<br>**27** = *2.70mm*<br>**29** = *2.90mm*<br>**31** = *3.10mm*<br>**33** = *3.30mm*<br>**35** = *3.50mm*<br>**37** = *3.70mm*<br>**40** = *4.00mm*<br>**42** = *4.20mm*<br>**44** = *4.40mm*<br>**45** = *4.50mm*<br>**50** = *5.0mm*<br>**60** = *6.0mm*<br>**64** = *6.4mm*<br>**65** = *6.5mm*<br>**70** = *7.0mm*<br>**75** = *7.5mm*<br>**80** = *8.0mm*<br>**85** = *8.5mm*<br>**90** = *9.0mm*<br>**A0** = *10.0mm*<br>**B0** = *11.0mm*<br>**B5** = *11.5mm*<br>**C0** = *12.0mm*<br>**C5** = *12.5mm*<br>**D0** = *13.0mm*<br>**D5** = *13.5mm*<br>**E0** = *14.0mm*<br>**E5** = *14.5mm*<br>**F0** = *15.0mm* | **200** = *2mm*<br>**300** = *3mm*<br>**127** = *1.27mm*<br>**254** = *2.54mm* |

## POGO PIN CONNECTOR WITH INSULATION HOUSING PART NUMBER CONFIGURATION

**PH1 - C - 3A - 40 - + MHP (PPG)**

| SERIES | CUSTOM PART | PITCH & INSULATION HEIGHT | POSITIONS | +MHP (PPG) |
|---|---|---|---|---|
| **PH1** = *Pogo Pin Connector Single Row*<br>**PH2** = *Pogo Pin Connector Double Row* | | *1st Character for Pitch*<br>**3** = *2.54mm*<br>**5** = *2.50mm*<br>**6** = *1.8mm*<br>**7** = *2.7mm*<br>**8** = *5.0mm*<br>**9** = *1.7mm*<br>**A1** = *4.0mm*<br>**A2** = *1.8/1.5mm*<br><br>*2nd Character for Insulation Height*<br>**A** = *1.27mm*<br>**B** = *1.50mm*<br>**C** = *3.80mm*<br>**D** = *4.00mm*<br>**E** = *2.00mm*<br>**F** = *2.50mm*<br>**G** = *3.00mm*<br>**H** = *4.50mm*<br>**J** = *3.50mm* | *Single Row* = **01** *thru* **40**<br>*Dual Row* = **02** *thru* **40** | *Follow by Discrete Pogo Pin PPG P/N - Standard (Ex, MHP-1113-11) Non-Standard or Customization (Ex, MVD-RD07511)* |

## POGO PIN CABLE ASSEMBLY PART NUMBER CONFIGURATION

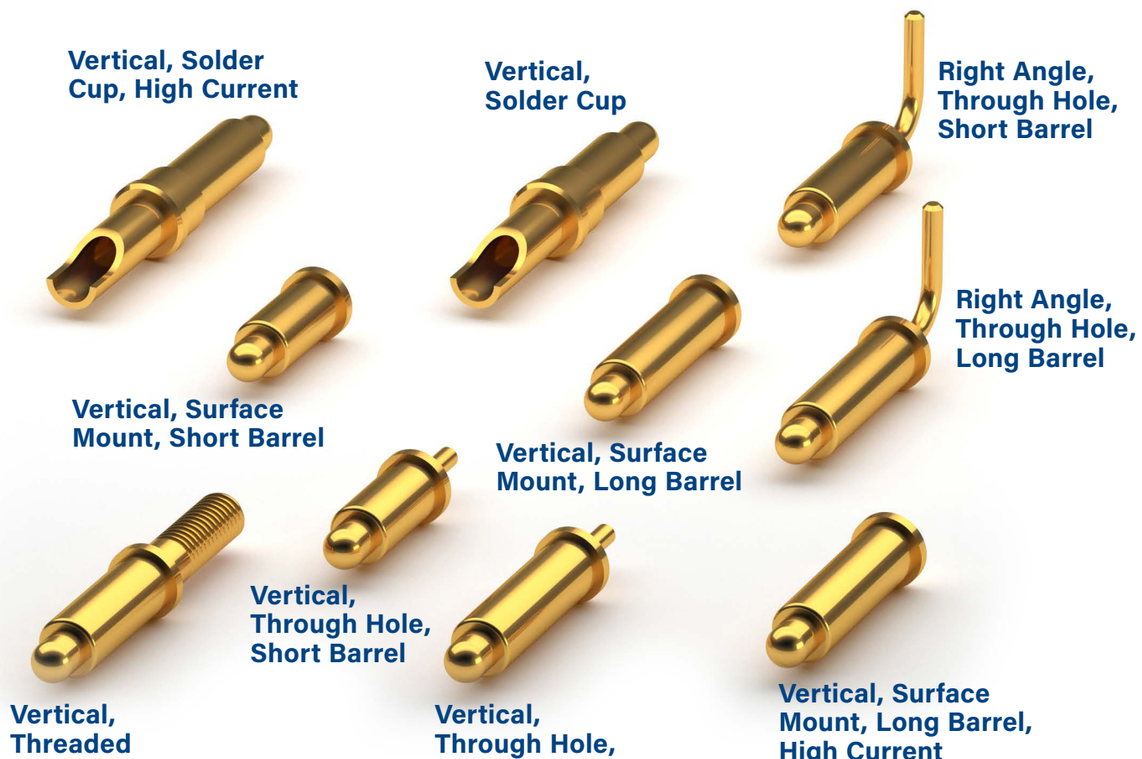
**CA - ST2 - PH1 - 25410 - M**

| SERIES | ORIENTATION & POSITIONS | ROW OF PIN HEADER | PITCH & CONNECTOR LENGTH | GENDER |
|---|---|---|---|---|
| **CA** = *Cable assembly* | *1st Character for Mounting Orientation*<br>**ST** = *Straight*<br>**RA** = *Right Angle*<br><br>*2nd Character Positions*<br>**2** = *2 PIN* | **1** = *Single Row*<br>**2** = *Dual Row*<br>**R** = *Round shape connector w/magnet* | *1st Character for Pitch*<br>**254** = *2.54mm*<br><br>*2nd Character for connector length*<br>**10** = *10mm* | **M** = *Male*<br>**F** = *Female*<br><br>**M1, M2, M3,** ... *for New type* |

## DISCRETE SPRING LOADED PINS

Adam Tech Discrete Spring Loaded pins are manufactured with precision from the highest quality brass barrels and plungers, support by industry leading spring steel to support long life cycles and high reliability. Our pins come in a wide range of heights, stroke length, mounting orientations, and electrical capabilities.

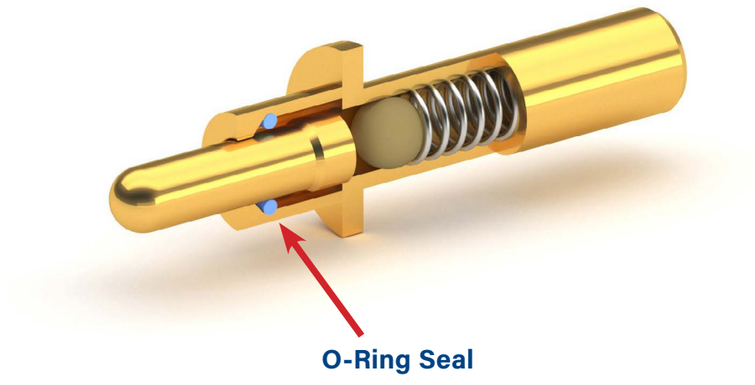
| PART NUMBER | GENDER | MOUNTING ORIENTATION | TERMINATION TYPE | OPTIONS | PRODUCT DATA |
|---|---|---|---|---|---|
| PH-MH5P-XXXX | Male | Right Angle | Through Hole | High Current (5 Amps) | View |
| PH-MHP-XXXX | Male | Right Angle | Through Hole | | View |
| PH-MV5F-XXXX | Male | Vertical | Surface Mount | High Current (5 Amps) | View |
| PH-MV5P-XXXX | Male | Vertical | Through Hole | High Current (5 Amps) | View |
| PH-MV5S-XXXX | Male | Vertical | Solder Cup | High Current (5 Amps) | View |
| PH-MVF-XXXX | Male | Vertical | Surface Mount | | View |
| PH-MVP-XXXX | Male | Vertical | Through Hole | | View |
| PH-MVS-XXXX | Male | Vertical | Solder Cup | | View |
| PH-MVT-XXXX | Male | Vertical | Threaded | | View |




## WATERPROOF DISCRETE SPRING LOADED PINS

Adam Tech “Waterproof” Discrete Pogo Pins are manufactured with the same precision as our standard dicscrete pogo pins with an added rubber seal. These pins are IP rated for repelling water and suitable for outdoor applications subject to a wet environment.

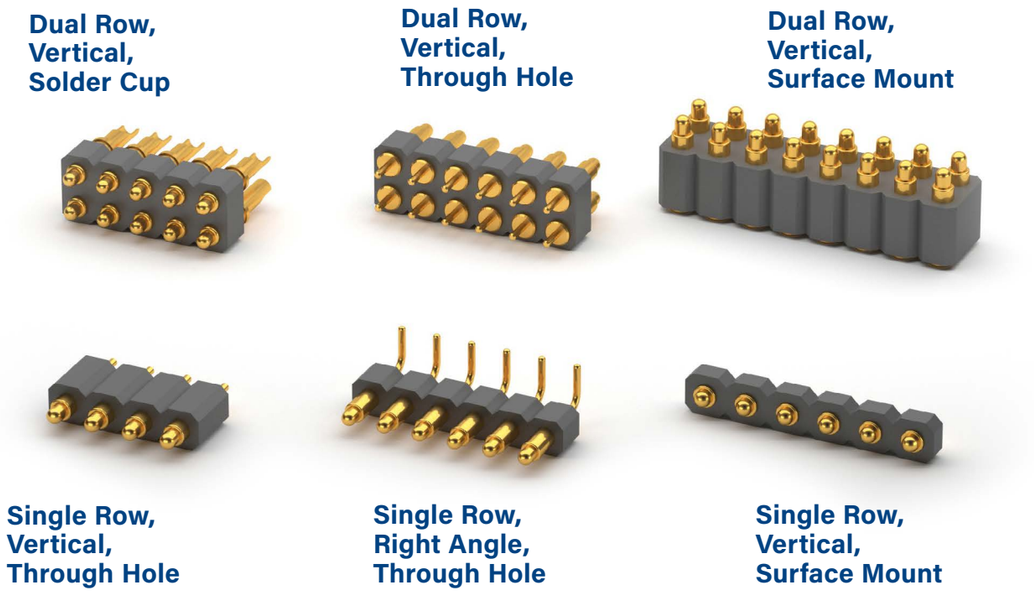
| PART NUMBER | TERMINATION TYPE | PRODUCT DATA |
|---|---|---|
| PH-MVP-26515-10-10-WP | Through Hole | View |



## SPRING LOADED

Adam Tech Spring Loaded Connectors consist of a pin, barrel, and steel spring with or without an insulator carrier. They are used in many industries across a wide range of applications to make a secure, high reliability connection. This series is highly customizable to meet specific stroke lengths, heights, and electrical capabilities. High-temp plastics are used for our insulators and unlimited molding designs allow for many different shapes and styles to be created for specific applications.

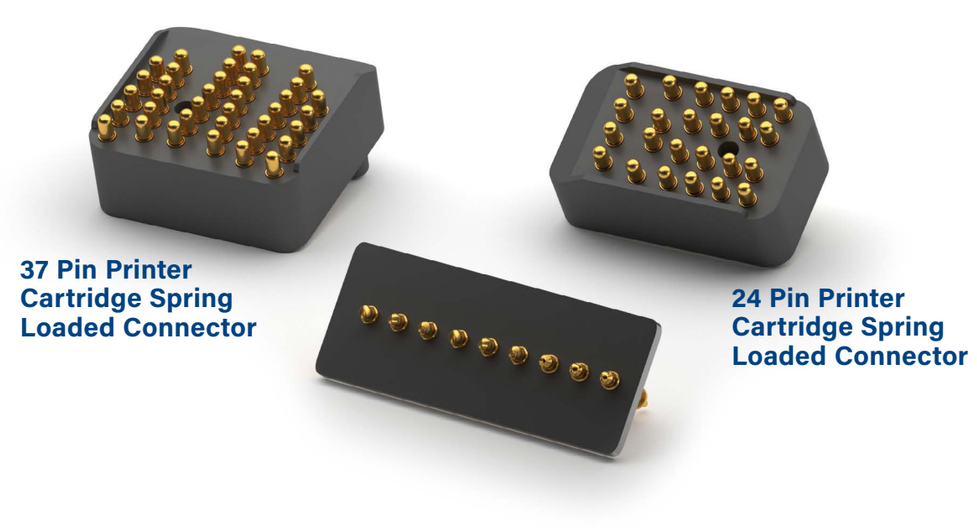
| PART NUMBER | ROWS | MOUNTING ORIENTATION | TERMINATION TYPE | PRODUCT DATA |
|---|---|---|---|---|
| PH1-3B-XX-MVF-XXXX | Single Row | Vertical | Surface Mount | View |
| PH1-3B-XX-MVP-XXXX | Single Row | Vertical | Through Hole | View |
| PH1-3B-XX-MVS-XXXX | Single Row | Vertical | Solder Cup | View |
| PH2-3B-XX-MVF-XXXX | Dual Row | Vertical | Surface Mount | View |
| PH2-3B-XX-MVF-XXXX-C1 | Dual Row | Vertical | Surface Mount | View |
| PH2-3B-XX-MVP-XXXX | Dual Row | Vertical | Through Hole | View |
| PH2-3B-XX-MVS-XXXX | Dual Row | Vertical | Solder Cup | View |
| PH2-3B-XX-MVS-XXXX-C1 | Dual Row | Vertical | Solder Cup | View |




## SPECIAL SPRING LOADED

Adam Tech offers full design customization capabilities for our spring loaded connectors.Below you can find a range of customized spring loaded connectors we've tailored for very specific applications. These are available for purchase. Customers can also request different shapes, sizes, and other features to fit into any application requirement necessary. Fast turn design and full 2D/3D models are available during the design phase. From concept to production, designing a custom spring loaded connector with Adam Tech is a seamless process aimed at total customer satisfaction.

| PART NUMBER | PRODUCT TYPE | PIN COUNT | HIGH SPEED DATA RATE | PRODUCT DATA |
|---|---|---|---|---|
| ADT-AN7975-C1 | Printer Cartridge Connectors | 24 Pins | | View |
| ADT-AN7975-C2 | Printer Cartridge Connectors | 37 Pins | | View |
| HDR-F-18-S-01-5 | High Speed Data Rate Spring Loaded Set | | High Speed Data Rate | View |
| HDR-M-18-S-01-5 | High Speed Data Rate Spring Loaded Set | | High Speed Data Rate | View |




## MATING PAD CONNECTORS

Adam Tech Mating Pad Connectors are the ideal mating solution for our line of spring loaded connectors. These dip-loaded parts have a .100" [2.54mm] pitch, vertical mounting orientation, and through hole termination. They are offered in either a single row or dual row configuration. Positions range from 1-40, offering mating capabilities to a wide range of pogo pin products.

| PART NUMBER | ROWS | CENTERLINE | POSITIONS | GENDER | MOUNTING ORIENTATION | TERMINATION TYPE | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| PH1-3F-XX-FVP-24415-C1 | Single Row | .100" [2.54mm] | 01-40 | Female | Vertical | Through Hole | View |
| PH2-3F-XX-FVP-24415-C1 | Dual Row | .100" [2.54mm] | 01-40 | Female | Vertical | Through Hole | View |



Magnetic cable assemblies and connectors are a popular and quickly growing product line. Adam Tech has incorporated over 30 years of connector knowledge and experience to develop a line of custom magnetic assembly solutions. In addition to a being available in a variety of configurations, these products offer several key features and benefits in the market:

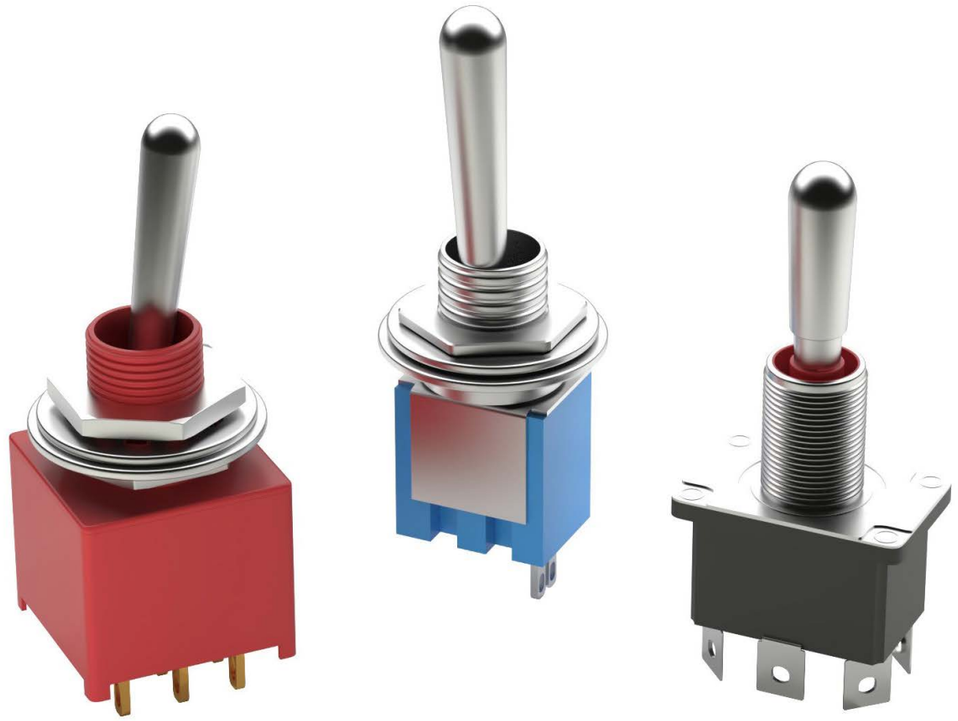
- Blind mate and easy connection
- Waterproof capabilities
- Variety of pin counts and shapes
- User friendliness
- Easily detachable for real world applications (fitness, medical, outdoor, etc)



| PART NUMBER | TYPE | PIN COUNT | SHAPE | PRODUCT DATA |
|---|---|---|---|---|
| CA-RA2-PHR-15103-M | Cable Assembly | 1 | Circular | View |
| CA-RA2-PHR-32572-M | Cable Assembly | 1 | Circular | View |
| CA-RA2-PHR-34113-M-WT | Cable Assembly | 1 | Circular | View |
| CA-RA4-PH1-181279-M | Cable Assembly | 4 | Rectangular | View |
| CA-RA4-PH1-1888-M | Cable Assembly | 4 | Rectangular | View |
| CA-RA5-PH1-25736-M | Cable Assembly | 5 | Rectangular | View |
| CA-ST2-PH1-25410-M | Cable Assembly | 2 | Square | View |
| CA-ST2-PH1-558-M | Cable Assembly | 2 | Rounded Rectangular | View |
| CA-ST2-PHR-198-M | Cable Assembly | 1 | Circular | View |
| CA-ST2-PHR-202-M | Cable Assembly | 1 | Circular | View |
| CA-ST5-PH1-18S-M | Cable Assembly | 5 | Rectangular | View |
| CA-ST6-PH2-254105-M | Cable Assembly | 6 | Square | View |
| CA-USBAM-PH-3E02-MVCC | Cable Assembly | 2 | Rectangular | View |
| CA-USBAM-PH-3E03-MVCC | Cable Assembly | 3 | Rectangular | View |
| CA-USBAM-PH-3E04-MVCC | Cable Assembly | 4 | Rectangular | View |
| CA-USBAM-PH-3E05-MVCC | Cable Assembly | 5 | Rectangular | View |
| PH-MV15F-9012 | Connector | 1 | Circular | View |
| PH1-3L-02-FVMP-4560 | Connector | 2 | Rectangular | View |
| PH1-3L-03-FVMP-4560 | Connector | 3 | Rectangular | View |
| PH1-3L-04-FVMP-4560 | Connector | 4 | Rectangular | View |
| PH1-3L-05-FVMP-4560 | Connector | 5 | Rectangular | View |
| PH1-C18395-05-FVP-585 | Connector | 5 | Rectangular | View |
| PH1-C184-05-FVP-59 | Connector | 5 | Rectangular | View |
| PH1-C1849-04-MVP-5S4S | Connector | 4 | Rounded Rectangular | View |
| PH1-C1853-04-MVP-7365 | Connector | 4 | Rounded Rectangular | View |
| PH1-C1855-05-FHP-728 | Connector | 5 | Rectangular | View |

| PART NUMBER | TYPE | PIN COUNT | SHAPE | PRODUCT DATA |
|---|---|---|---|---|
| PH1-C1857-04-FHP-5 | Connector | 4 | Rounded Rectangular | View |
| PH1-C18696-05-MVP-865975 | Connector | 5 | Rectangular | View |
| PH1-C2118S-07-FVF-153 | Connector | 7 | Rectangular | View |
| PH1-C2135-07-MVP-4351 | Connector | 7 | Rectangular | View |
| PH1-C2446-08-MHP-826996 | Connector | 8 | Rectangular | View |
| PH1-C24595-08-FHP-709 | Connector | 8 | Rectangular | View |
| PH1-C2520-02-MVF-4565 | Connector | 2 | Rectangular | View |
| PH1-C2524-05-MVF-2533 | Connector | 5 | Rectangular | View |
| PH1-C2535-05-FHP-52 | Connector | 5 | Rectangular | View |
| PH1-C25355-04-MVP-2635 | Connector | 4 | Rectangular | View |
| PH1-C25381-05-MVP-464575 | Connector | 5 | Rectangular | View |
| PH1-C315-03-MVF-3550 | Connector | 3 | Rectangular | View |
| PH1-C365-04-FVRP-605685 | Connector | 4 | Rounded Rectangular | View |
| PH1-C449-06-MHP-965A85 | Connector | 6 | Rectangular | View |
| PH1-C463-06-FHP-71 | Connector | 6 | Rectangular | View |
| PH2-C18575-14-MHP-A55935 | Connector | 14 | Trapezoid | View |
| PH2-C18765-14-FHP-8 | Connector | 14 | Trapezoid | View |
| PH2-C2528-08-MVP-40735 | Connector | 8 | Rectangular | View |
| PH2-C25410-06-FVP | Connector | 6 | Square | View |
| PH2-C266-12-MVP-66 | Connector | 12 | Rectangular | View |
| PH2-C272-12-FVP-76 | Connector | 12 | Rectangular | View |
| PH2-C665-06-FVP-65S | Connector | 6 | Rectangular | View |
| PH2-C665-06-MVP-7792 | Connector | 6 | Rectangular | View |
| PHR-C4777-02-FVP-800 | Connector | 2 | Circular | View |
| PHR-C4777-02A-FVP-800 | Connector | 2 | Circular | View |

Adam Tech Toggle Switches are medium, miniature, and sub-miniature switches that are manually actuated by a mechanical lever. They are available in low current, power, and sealed (waterproof) IP67/IP68 versions. Commonly used as light duty control switches, these toggle switches are ideal for switching both high and low currents. This product line boasts a variety of termination styles, circuits, functions, and actuator lengths, making it ideal for a broad range of applications.



## FEATURES & SPECIFICATIONS

### FEATURES:
Variety of Toggle Switch sizes and orientations
Sealed IP67 waterproof
Sealed power IP68 waterproof
Termination styles: solder type, PCB type, screw lug, PCB terminal, and quick connect terminal
Circuits: SPST, SPDT, DPST, DPDT, and 3PDT
Functions: ON-ON, ON-OFF, OFF-(ON), and ON-OFF-ON
Various actuator length options

### PACKAGING:
Bag or box

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. WOYR2.E520713

### SPECIFICATIONS:

#### Material:
Body: PA66 or Bakelite
Lever: Brass, nickel plated; or copper alloy, silver plated

#### Contact Plating:
Terminal: Brass, silver or tin plated

#### Electrical:
Operating Voltage Range: 125 to 250 V AC
Current Rating Range: 1.5 to 12 Amps
Contact Resistance Range: 10 to 100 mΩ Max.
Insulation Resistance Range: 100 to 1000 MΩ Min.
Dielectric Withstanding Voltage Range: 1000 to 1500V AC for 1 Minute

### TEMPERATURE RATING:
Operating Temperature Range: -30°C to +85°C

## PART NUMBER CONFIGURATION

**SW - T1 - 1 - A - A - A2 - S - 1**

| SERIES | TYPE | CONTACT FORM | SWITCH FUNCTION | TERMINAL OPTION | HANDLE OPTION | CONTACT PLATING | VERSION/STYLE |
|---|---|---|---|---|---|---|---|
| **SW**= *Switch* | **T** = *Toggle*<br>**T1** = *Toggle Medium*<br>**T2** = *Toggle Mimiature*<br>**T3** = *Toggle Sub-Miniature*<br>**T4** = *Toggle Power* | **1** = *SPST*<br>**2** = *SPDT*<br>**3** = *DPST*<br>**4** = *DPDT*<br>**5** = *3PST*<br>**6** = *3PDT*<br>**7** = *SP3T* | **A** = *ON-OFF*<br>**B** = *ON-ON*<br>**C** = *OFF-(ON)*<br>**D** = *ON-(ON)*<br>**E** = *ON-OFF-ON*<br>**F** = *ON-OFF-(ON)*<br>**G** = *(ON)-OFF-(ON)*<br>**H** = *(ON)-OFF-ON* | **A** = *Solder*<br>**B** = *PCB Vertical*<br>**C** = *PCB R/A*<br>**D** = *Screw Lug*<br>**E** = *QC .250" [6.35mm]*<br>**F** = *QC .187" [4.80mm]* | **A2** = *11.0mm (T2 Series)*<br>**B2** = *21.0mm (T2 Series)*<br>**C2** = *6.9mm (T2 Series)*<br>**D2** = *12.5mm (T2 Series)*<br>**E2 & G2** = *15.0mm (T2 Series)*<br>**F2** = *12.0mm (T2 Series)*<br>**L2** = *17.0mm (T2 Series)*<br>**FL2** = *21.0mm (T2 Series)*<br>**A3** = *9.4mm (T3 Series)*<br>**C3** = *5.4mm (T3 Series)*<br>**D3** = *8.9mm (T3 Series)*<br>**Blank** = *17.5mm (T1 Series)*<br>**C1** = *14.0mm (T1 Series)*<br>**D1** = *18.0mm (T1 Series)*<br>**E1** = *28.0mm (T1 Series)*<br>**L1** = *50.0mm (T1 Series)*<br>**TA1** = *16.2mm (T1 Series)*<br>**T1** = *12.6mm (T2 Series, style 03)*<br>**T2** = *7.6mm (T2 Series, style 03)*<br>**T3** = *10.7mm (T2 Series, style 03)* | **S** = *Silver*<br>**G** = *Gold* | *See Datasheets* |

| PART NUMBER | TOGGLE SWITCH TYPE | TERMINATION STYLE | CIRCUIT | FUNCTION | PRODUCT DATA |
|---|---|---|---|---|---|
| SW-T1-1X-B-K1 | Medium Toggle | PC Terminal [6.35mm] | SPST | ON-OFF or OFF-(ON) | View |
| SW-T1-1X-D-K1 | Medium Toggle | Screw Lug | SPST | ON-OFF or OFF-(ON) | View |
| SW-T1-2X-B-K1 | Medium Toggle | PC Terminal [6.35mm] | SPDT | Multiple Function Options (see datasheet) | View |
| SW-T1-2X-D-K1 | Medium Toggle | Screw Lug | SPDT | Multiple Function Options (see datasheet) | View |
| SW-T1-3X-B-K2 | Medium Toggle | PC Terminal [6.35mm] | DPST | ON-OFF or OFF-(ON) | View |
| SW-T1-3X-D-K2 | Medium Toggle | Screw Lug | DPST | ON-OFF or OFF-(ON) | View |
| SW-T1-4X-B-K2A | Medium Toggle | PC Terminal [6.35mm] | DPDT | Multiple Function Options (see datasheet) | View |
| SW-T1-6X-D-C1-K3 | Medium Toggle | Screw Lug | 3PDT | ON-ON | View |
| SW-T2-1X-A-A2-M1 | Miniature Toggle | Solder Type | SPST | ON-OFF or OFF-(ON) | View |
| SW-T2-2B-A-T1-X-03 | IP67 Sealed Miniature Toggle | Solder Type | SPDT | ON-ON | View |
| SW-T2-2B-A-T2-X-03 | IP67 Sealed Miniature Toggle | Solder Type | SPDT | ON-ON | View |
| SW-T2-2X-A-A2-M1 | Miniature Toggle | Solder Type | SPDT | Multiple Function Options (see datasheet) | View |
| SW-T2-3X-A-A2-M2 | Miniature Toggle | Solder Type | DPST | ON-OFF or OFF-(ON) | View |
| SW-T2-4B-A-T1-X-03 | IP67 Sealed Miniature Toggle | Solder Type | DPDT | ON-ON | View |
| SW-T2-4B-A-T2-X-03 | IP67 Sealed Miniature Toggle | Solder Type | DPDT | ON-ON | View |
| SW-T2-4X-A-A2-MA2 | Miniature Toggle | Solder Type | DPDT | ON-OFF-ON | View |
| SW-T2-4X-B-A2-MA2 | Miniature Toggle | PCB Vertical Type | DPDT | Multiple Function Options (see datasheet) | View |
| SW-T2-6X-A-A2-M3 | Miniature Toggle | Solder Type | 3PDT | ON-ON or ON-OFF-ON | View |
| SW-T2-6X-B-A2-M3 | Miniature Toggle | PCB Vertical Type | 3PDT | ON-ON or ON-OFF-ON | View |
| SW-T3-1A-A-A3-S1 | Subminiature Toggle | Solder Type | SPST | ON-OFF | View |
| SW-T3-2B-A-A3-S1 | Subminiature Toggle | Solder Type | SPDT | ON-ON | View |
| SW-T3-2B-A-T3-X-05 | IP67 Sealed Subminiature Toggle | Solder Type | SPDT | ON-ON | View |
| SW-T3-4B-A-A3-S2 | Subminiature Toggle | Solder Type | DPDT | ON-ON | View |
| SW-T3-4B-A-T3-X-05 | IP67 Sealed Subminiature Toggle | Solder Type | DPDT | ON-ON | View |
| SW-T4-1A-E-TA1-01 | IP68 Sealed Power Toggle | Quick Connect Terminal [6.35mm] | SPST | ON-ON | View |
| SW-T4-2B-E-TA1-01 | IP68 Sealed Power Toggle | Quick Connect Terminal [6.35mm] | SPDT | ON-ON | View |

**SW-T1-3X-D-K2: Medium Toggle, Screw Lug, DPST**





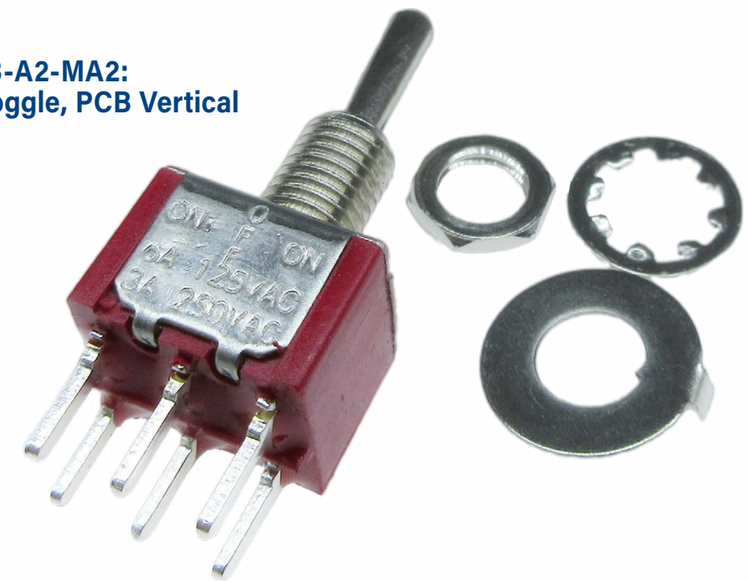


**SW-T4-1A-E-TA1-01: IP68 Sealed Power Toggle, Quick Connect Terminal, SPST**

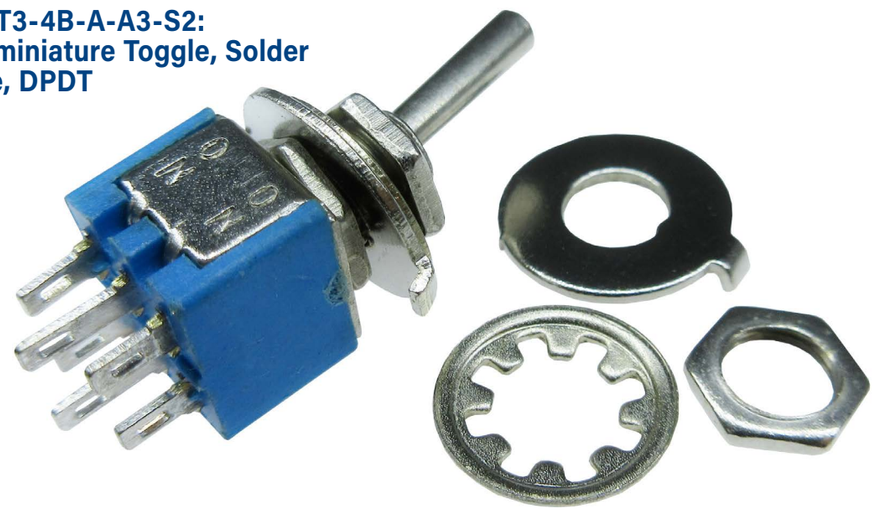
**SW-T2-4B-A-T1-X-03: IP67 Sealed Miniature Toggle, Solder Type, DPDT**




**SW-T2-4E-B-A2-MA2: Miniature Toggle, PCB Vertical Type, DPDT**




**SW-T3-4B-A-A3-S2: Subminiature Toggle, Solder Type, DPDT**



Adam Tech Rocker Switches are an ideal solution for turning electrical devices on and off. This product line is composed of miniature, subminiature, and medium sized rocker switches. Each is equipped with a standard or LED lighted actuator, which are available in a variety of color, shape, and marking options. Specialized IP67 sealed waterproof rocker switches are also available.



## FEATURES & SPECIFICATIONS

### FEATURES
Variety of Rocker Switch types
Sealed waterproof IP67
Termination options: solder type, PCB type, and quick connect terminal
Circuits: SPST, SPDT, DPST, and DPDT
Functions: ON-ON, ON-OFF, OFF-(ON), ON-OFF-ON, and (ON)-OFF-ON
Rocker shapes: round and rectangular (curved and standard V)
Standard and custom actuator markings
LED lighted actuators w/ color options

### PACKAGING:
Bag or box

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. WOYR2.E520713

### SPECIFICATIONS:

#### Material:
Body: PA66
Button: PA66

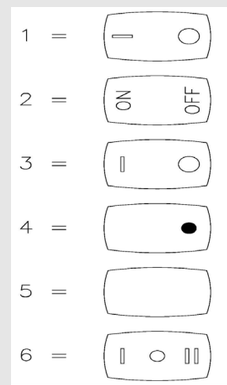
#### Contact Plating:
Terminal: Brass, silver plated; or copper alloy, silver or gold (over nickel) plated

#### Electrical:
Operating Voltage Range: 20 to 250 V AC
Current Rating Range: 0.4 to 20 Amps
Contact Resistance Range: 10 to 100 mΩ Max.
Insulation Resistance Range: 100 to 1000 MΩ Min.
Dielectric Withstanding Voltage: 1500V AC for 1 Minute

### TEMPERATURE RATING:
Operating Temperature Range: -30°C to +85°C

## PART NUMBER CONFIGURATION

**SW - R - 1 - A - A - LR - 1 - 1**

| SERIES | TYPE | CONTACT FORM | SWITCH FUNCTION | TERMINAL OPTION | ACTUATOR COLOR | ACTUATOR MARKING | VERSION/STYLE |
|---|---|---|---|---|---|---|---|
| **SW**= *Switch* | **R** = *Rocker*<br>**R1** = *Medium Rocker*<br>**R2** = *Miniature Rocker*<br>**R3** = *Subminiature Rocker* | **1** = *SPST*<br>**2** = *SPDT*<br>**3** = *DPST*<br>**4** = *DPDT*<br>**5** = *3PST*<br>**6** = *3PDT* | **A** = *ON-OFF*<br>**B** = *ON-ON*<br>**C** = *OFF-(ON)*<br>**D** = *ON-(ON)*<br>**E** = *ON-OFF-ON*<br>**F** = *ON-OFF-(ON)*<br>**G** = *(ON)-OFF-(ON)*<br>**H** = *(ON)-OFF-ON*<br>**J** = *(ON)-OFF*<br>**K** = *(ON)-ON* | **A** = *Solder*<br>**B** = *PCB Vertical*<br>**C** = *PCB R/A*<br>**D** = *Screw Lug*<br>**E** = *QC .250" [6.35mm]*<br>**F** = *QC .187" [4.80mm]* | **Blank** = *Standard Black*<br>**SB** = *Small Black*<br>**W** = *White*<br>**R** = *Red*<br>**G** = *Green*<br>**Y** = *Yellow*<br>**B** = *Blue*<br>**O** = *Orange*<br>**LW** = *Lighted White*<br>**LR** = *Lighted Red*<br>**LG** = *Lighted Green*<br>**LY** = *Lighted Yellow*<br>**LB** = *Lighted Blue*<br>**LO** = *Lighted Orange* |  | *See Datasheets* |

**BODY COLOR STANDARD BLACK**

| PART NUMBER | ROCKER SWITCH TYPE | TERMINATION STYLE | CIRCUIT | FUNCTION | SHAPE | LED LIGHTED ACTUATOR | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| SW-R1-1A-E-LXXX-0 | Medium Rocker | Quick Connect Terminal .250in [6.35mm] | SPST | ON-OFF | Rectangular - Concave (Curved) | Yes | View |
| SW-R1-1X-E-XX-0 | Medium Rocker | Quick Connect Terminal .250in [6.35mm] | SPST | ON-OFF or OFF-(ON) | Rectangular - Concave (Curved) | No | View |
| SW-R1-3A-E-LXXX-0 | Medium Rocker | Quick Connect Terminal .250in [6.35mm] | DPST | ON-OFF | Rectangular - Concave (Curved) | Yes | View |
| SW-R1-3A-E-LXXX-2 | Medium Rocker | Quick Connect Terminal .250in [6.35mm] | DPST | ON-OFF | Rectangular - Concave (Curved) | Yes | View |
| SW-R1-3A-E-LXXX-2A | Medium Rocker | Quick Connect Terminal .250in [6.35mm] | DPST | ON-OFF | Rectangular - Concave (Curved) | Yes | View |
| SW-R1-3A-E-XX-2A | Medium Rocker | Quick Connect Terminal .250in [6.35mm] | DPST | ON-OFF | Rectangular - Concave (Curved) | No | View |
| SW-R1-3X-E-XX-0 | Medium Rocker | Quick Connect Terminal .250in [6.35mm] | DPST | ON-OFF or OFF-(ON) | Rectangular - Concave (Curved) | No | View |
| SW-R1-3X-E-XX-2 | Medium Rocker | Quick Connect Terminal .250in [6.35mm] | DPST | ON-OFF or OFF-(ON) | Rectangular - Concave (Curved) | No | View |
| SW-R1-4E-E-LXXX-0 | Medium Rocker | Quick Connect Terminal .250in [6.35mm] | DPDT | ON-OFF-ON | Rectangular - Concave (Curved) | Yes | View |
| SW-R1-4E-E-XX-0 | Medium Rocker | Quick Connect Terminal .250in [6.35mm] | DPDT | ON-OFF-ON | Rectangular - Concave (Curved) | No | View |
| SW-R2-1A-F-LXXX-2 | Miniature Rocker | Quick Connect Terminal .187in [4.75mm] | SPST | ON-OFF | Rectangular - Concave (Curved) | Yes | View |
| SW-R2-1A-F-LXXX-5 | Miniature Rocker | Quick Connect Terminal .187in [4.75mm] | SPST | ON-OFF | Round | Yes | View |
| SW-R2-1A-F-LXXX-8 | Miniature Rocker | Quick Connect Terminal .187in [4.75mm] | SPST | ON-OFF | Round | Yes | View |
| SW-R2-1A-F-XX-0 | Miniature Rocker | Quick Connect Terminal .187in [4.75mm] | SPST | ON-OFF | Rectangular - Concave (Curved) | No | View |
| SW-R2-1A-F-XX-5 | Miniature Rocker | Quick Connect Terminal .187in [4.75mm] | SPST | ON-OFF | Round | No | View |
| SW-R2-1A-F-XX-5W | Waterproof Miniature Rocker | Quick Connect Terminal .187in [4.75mm] | SPST | ON-OFF | Round | No | View |
| SW-R2-1A-F-XX-8 | Miniature Rocker | Quick Connect Terminal .187in [4.75mm] | SPST | ON-OFF | Round | No | View |
| SW-R2-2B-A-5-10 | Miniature Rocker | Solder Type | SPDT | ON-ON | Rectangular - Concave (Standard V) | No | View |
| SW-R2-2B-A-5-11 | IP67 Sealed Miniature Rocker | Solder Type | SPDT | ON-ON | Rectangular - Concave (Standard V) | No | View |
| SW-R2-2B-B-5-10 | Miniature Rocker | PCB Vertical Type | SPDT | ON-ON | Rectangular - Concave (Standard V) | No | View |
| SW-R2-2B-F-XX-0 | Miniature Rocker | Quick Connect Terminal .187in [4.75mm] | SPDT | ON-ON | Rectangular - Concave (Curved) | No | View |
| SW-R2-2E-F-XX-5 | Miniature Rocker | Quick Connect Terminal .187in [4.75mm] | SPDT | ON-OFF-ON | Round | No | View |
| SW-R2-2E-F-XX-8 | Miniature Rocker | Quick Connect Terminal .187in [4.75mm] | SPDT | ON-OFF-ON | Round | No | View |
| SW-R2-2X-F-XX-2 | Miniature Rocker | Quick Connect Terminal .187in [4.75mm] | SPDT | ON-OFF-ON or (ON)-OFF-ON | Rectangular - Concave (Curved) | No | View |
| SW-R2-3A-F-LXXX-4 | Miniature Rocker | Quick Connect Terminal .187in [4.75mm] | DPST | ON-OFF | Rectangular - Concave (Curved) | Yes | View |
| SW-R2-3A-F-LXXX-6 | Miniature Rocker | Quick Connect Terminal .187in [4.75mm] | DPST | ON-OFF | Rectangular - Concave (Curved) | Yes | View |
| SW-R2-3A-F-X1-4 | Miniature Rocker | Solder Type | DPST | ON-OFF | Rectangular - Concave (Curved) | No | View |
| SW-R2-3A-F-XX-6 | Miniature Rocker | Quick Connect Terminal .187in [4.75mm] | DPST | ON-OFF | Rectangular - Concave (Curved) | No | View |
| SW-R2-4B-A-5-11 | IP67 Sealed Miniature Rocker | Solder Type | DPDT | ON-ON | Rectangular - Concave (Standard V) | No | View |
| SW-R2-4X-S-XX-1 | Miniature Rocker | Solder Terminal | DPDT | ON-ON or ON-OFF-ON | Rectangular - Concave (Curved) | No | View |
| SW-R3-1A-A-LXXX-2 | Subminiature Rocker | Solder Type | SPST | ON-OFF | Round | Yes | View |
| SW-R3-1A-A-XX-0 | Subminiature Rocker | Solder Type | SPST | ON-OFF | Rectangular - Concave (Curved) | No | View |
| SW-R3-1A-A-XX-2 | Subminiature Rocker | Solder Type | SPST | ON-OFF | Round | No | View |
| SW-R3-2B-B-5-13 | Subminiature Rocker | PCB Vertical Type | SPDT | ON-ON | Rectangular - Concave (Standard V) | No | View |
| SW-R3-2B-B-5-G-14 | IP67 Sealed Subminiature Rocker | PCB Vertical Type | SPDT | ON-ON | Rectangular - Concave (Standard V) | No | View |
| SW-R3-2B-B-SB5-13 | Subminiature Rocker | PCB Vertical Type | SPDT | ON-ON | Rectangular - Concave (Standard V) | No | View |
| SW-R3-2B-B-SB5-G-13 | Subminiature Rocker | PCB Vertical Type | SPDT | ON-ON | Rectangular - Concave (Standard V) | No | View |
| SW-R3-2B-B-SB5-G-14 | IP67 Sealed Subminiature Rocker | PCB Vertical Type | SPDT | ON-ON | Rectangular - Concave (Standard V) | No | View |
| SW-R3-2B-C-5-13 | Subminiature Rocker | PCB Right Angle Type | SPDT | ON-ON | Rectangular - Concave (Standard V) | No | View |
| SW-R3-2B-C-5-G-14 | IP67 Sealed Subminiature Rocker | PCB Right Angle Type | SPDT | ON-ON | Rectangular - Concave (Standard V) | No | View |
| SW-R3-2B-C-SB5-G-13 | Subminiature Rocker | PCB Right Angle Type | SPDT | ON-ON | Rectangular - Concave (Standard V) | No | View |
| SW-R3-2B-C-SB5-G-14 | IP67 Sealed Subminiature Rocker | PCB Right Angle Type | SPDT | ON-ON | Rectangular - Concave (Standard V) | No | View |

Adam Tech Keylock Switches utilize a lock and key to provide applications with additional security. This product line is composed of panel mount and solder terminal switches, available in various panel cutout dimensions, circuits, and functions. Key pull options include single position and multiple positions, utilizing both standard and tubular keys.



## FEATURES & SPECIFICATIONS

### FEATURES
Panel mount, solder terminal keylock switches
Panel cutout dimensions: 19mm, 16mm, 15mm, 14.5mm, and 12mm
Circuits: SP, DP, and SPDT
Functions: ON-ON, ON-OFF, and OFF-ON-ON
Single key pull and multiple key pull options

### PACKAGING:
Bag

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. WOYR2.E520713

### SPECIFICATIONS:

**Material:**
Body: Steel, polished chrome

**Electrical:**
Operating Voltage Range: 125 to 250 V AC
Current Rating Range: 0.5 to 4 Amps
Contact Resistance Range: 20 to 100 mΩ Max.
Insulation Resistance Range: 100 to 1000 MΩ Min.
Dielectric Withstanding Voltage Range: 500 to 1500V AC for 1 Minute

**TEMPERATURE RATING:**
Operating Temperature Range: -25°C to +85°C

## PART NUMBER CONFIGURATION

| SW - | R - | K - | A |
|---|---|---|---|
| **SERIES** | | **TYPE** | **KEY PULL** |
| **SW** = *Switch* | | **K1** = *15MM, SPST, ON-OFF*<br>**K4** = *12MM, SPST, ON-OFF*<br>**K5** = *14.5MM, SPST, ON-OFF*<br>**K7A** = *16MM, SPST, ON-OFF*<br>**K7B** = *16MM, SPST, OFF-ON-ON*<br>**K8** = *16MM, SPDT, ON-ON*<br>**K9** = *16MM, SPDT, ON-ON*<br>**K10** = *19MM, SPST, ON-OFF*<br>**K11B** = *19MM, SPDT, ON-ON*<br>**K13A** = *19MM, SPST, ON-ON*<br>**K13B** = *19MM, SPDT, ON-ON* | **A** = *Key pulled on both positions*<br>**B** = *Kay pulled on one position* |

| PART NUMBER | PANEL CUTOUT DIMENSION | MOUNTING TYPE | TERMINATION STYLE | CIRCUIT | FUNCTION | PRODUCT DATA |
|---|---|---|---|---|---|---|
| SW-R-K1-X | 15mm | Panel Mount | Solder Terminal | SP | ON-OFF | View |
| SW-R-K10-X | 19mm | Panel Mount | Solder Terminal | SP | ON-OFF | View |
| SW-R-K11B-X | 19mm | Panel Mount | Solder Terminal | SPDT | ON-ON | View |
| SW-R-K13X-X | 19mm | Panel Mount | Solder Terminal | SP or DP | ON-ON | View |
| SW-R-K4-X | 12mm | Panel Mount | Solder Terminal | SP | ON-OFF | View |
| SW-R-K5-X | 14.5mm | Panel Mount | Solder Terminal | SP | ON-OFF | View |
| SW-R-K7X-X | 16mm | Panel Mount | Solder Terminal | SP | ON-OFF or OFF-ON-ON | View |
| SW-R-K8-X | 16mm | Panel Mount | Solder Terminal | SPDT | ON-ON | View |
| SW-R-K9-X | 16mm | Panel Mount | Solder Terminal | SPDT | ON-ON | View |

Adam Tech Pushbutton switches are tactile switches ideal for use in industrial control panels to operate circuits within a device. This vast line of metal and plastic pushbutton switches is available in standard, miniature, and subminiature sizes. Operationally, the line includes snap-acting, alternate acting, low profile, and illuminated pushbutton switches. Specialty switches including anti-vandal, industrial, high current, high performance, and sealed IP67/IP68 waterproof are also available.

## FEATURES & SPECIFICATIONS

### FEATURES
Variety of Pushbutton Switch types
IP68 and IP67 sealed waterproof
IP68 high performance
High current
Anti-vandal
Termination styles: solder type, PCB type, screw lug, and surface mount
Circuits: SPST, SPDT, and DPDT
Functions: ON-ON, ON-OFF, OFF-ON, Momentary, Latching, ON-Momentary, OFF-Momentary, NO-NC Momentary, 1NO-1NC (Momentary or Latching), ON-OFF Latching, OFF-ON Momentary, and ON-ON Latching
Actuator types: round button, round plunger, and square button
LED lighted actuators w/ color options

### PACKAGING:
Bag, box, or tray

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. WOYR2.E520713

### SPECIFICATIONS:

**Material:**
Body: ABS, PA66, PC, or PBT
Button: Stainless steel, ABS, PC, or POM
Spring: Spring steel wire

**Contact Plating:**
Terminal: Brass or copper alloy, silver plated

**Electrical:**
Operating Voltage Range: 32 to 250 V AC
Current Rating Range: 0.4 to 16 Amps
Contact Resistance Range: 10 to 50 mΩ Max.
Insulation Resistance Range: 100 to 1000 MΩ Min.
Dielectric Withstanding Voltage Range: 1000 to 2000V AC for 1 Minute

### TEMPERATURE RATING:
Operating Temperature Range: -30°C to +85°C



**SW-PB7-01LB42BFRXXXXM:**

**Anti-Vandal Push Button, SPST, OFF-Momentary, Lighted**



**SW-PB11-1CSX-10A:**

**IP67 Push Button, SPST, OFF-Momentary**



**SW-PB2-2EX-A-RX-3-L1:**

**IP67 Push Button, Latching, SPST, OFF-Momentary**



**SW-PB7-01PB4EBRXM:**

**Anti-Vandal Push Button, IP Rated, SPST, OFF-Momentary**



**SW-PB7-07LB42CRRXXXXX:**

**Anti-Vandal Push Button, IP Rated, LED Lighted Actuator, SPST, OFF-ON**



**SW-PB7-06LB22FFRXXXXX:**

**High Current Vandal Push Button, LED Lighted Actuator, SPDT, ON-ON Latching**



**SW-PB7-03LB22CFPXXXXX:**

**Ant-Vandal Push Button, IP Rated, LED Lighted Actuator, SPDT, NO-NC**

## PART NUMBER CONFIGURATION

**SW - PB1 - 1 - A - S - A - RW - Y - B1 - Q - 1 - 1**

| SERIES | TYPE | CONTACT FORM | SWITCH FUNCTION | FUNCTION | TERMINAL OPTION | LED TYPE / COLOR | SHAPE (PLUNGER OR ACTUATOR) | BUSHING | CONTACT MATERIAL | LED VOLTAGE | VERSION / STYLE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SW** = *Switch* | **PB1** = *Plastic Pushbutton*<br>**PB2** = *Plastic Waterproof*<br>**PB5** = *Industrial Switch*<br>**PB7** = *Ant-Vandal Switch*<br>**PB8** = *Snap Acting Switch*<br>**PB9** = *Subminiature*<br>**PB10** = *High Performance Sealed*<br>**PB11** = *IP67 Front Panel Protection Illuminated* | **1** = *SPST*<br>**2** = *SPDT*<br>**3** = *DPST*<br>**4** = *DPDT*<br>**5** = *3PST*<br>**6** = *3PDT*<br>**7** = *SP3T* | **A** = *OFF-ON*<br>**B** = *OFF-MOM*<br>**C** = *ON-MOM*<br>**D** = *ON-OFF*<br>**E** = *1NO-1NC*<br>**F** = *1NC*<br>**G** = *2NO-2NC*<br>**H** = *2NC*<br>**J** = *ON-ON*<br>**K** = *ON-(ON)* | **S** = *Momentary*<br>**Z** = *Latching* | **A** = *Solder*<br>**B** = *PCB Vertical*<br>**C** = *PCB R/A*<br>**D** = *Screw Lug*<br>**E** = *QC .250" [6.35mm]*<br>**F** = *QC .187" [4.80mm]* | *1st Letter is LED Type*<br>**R** = *Ring Illuminated*<br>**L** = *Laser Power Logo*<br>**LR** = *Laser Power Logo + Ring*<br>**LS** = *Lens Illuminated*<br>**C** = *Custom Laser Symbol*<br>**F** = *Full Illuminated*<br><br>*2nd Letter is LED Color*<br>**Blank** = *Standard Black*<br>**SB** = *Small Black*<br>**W** = *White*<br>**R** = *Red*<br>**G** = *Green*<br>**Y** = *Yellow*<br>**B** = *Blue*<br>**O** = *Orange*<br>**S** = *Silver*<br>**RG** = *Red/Green*<br>**RY** = *Red/Yellow*<br>**RB** = *Red/Blue*<br>**RW** = *Red/White*<br>**GB** = *Green/Blue*<br>**RGB** = *Red/Green/Blue*<br>**RGY** = *Red/Green/Yellow*<br>**RGW** = *Red/Green/White*<br>**RBY** = *Red/Blue/Yellow*<br>**RBW** = *Red/Blue/White* | **Y** = *Round*<br>**F** = *Square*<br>**J** = *Rectangle*<br>**R** = *Emergency*<br>**M** = *Mushroom*<br>**X** = *Rotary Type*<br>**K** = *Key Type*<br>**H** = *Hexagonal* | *See datasheets* | **Q** = *Silver*<br>**P** = *Silver (Tin Plated Terminals*<br>**R** = *Gold*<br>**K** = *Gold (Tin Plate Terminals)*<br>**G** = *Silver (Gold Plated Terminals)* | **1** = *3V*<br>**2** = *6V*<br>**3** = *12V*<br>**4** = *24V*<br>**5** = *48V*<br>**6** = *110V*<br>**7** = *220V* | *See datasheets* |

| PART NUMBER | PUSHBUTTON SWITCH TYPE | TERMINATION STYLE | CIRCUIT | FUNCTION | ACTUATOR TYPE | LED LIGHTED ACTUATOR | CAP | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|
| SW-PB1-1BS-A-PK1-X | Plastic Pushbutton | Solder Type | SPST | OFF-Momentary | Round Plunger | | | View |
| SW-PB1-1XX-A-P1-X | Plastic Pushbutton | Solder Type | SPST | ON-OFF Latching or OFF-ON Momentary | Round Button | | | View |
| SW-PB10-AAA1QE-4 | IP68 High Performance Sealed Pushbutton | Solder Type | SPDT | ON-ON | Round Plunger | | | View |
| SW-PB10-AAA2QE-4 | IP68 High Performance Sealed Pushbutton | PCB Tails | SPDT | ON-ON | Round Plunger | | | View |
| SW-PB10-BAA1QE-4 | IP68 High Performance Sealed Pushbutton | Solder Type | DPDT | ON-ON | Round Plunger | | | View |
| SW-PB10-BAA2QE-4 | IP68 High Performance Sealed Pushbutton | PCB Tails | DPDT | ON-ON | Round Plunger | | | View |
| SW-PB10-CBB2QE-4 | IP68 High Performance Sealed Pushbutton | PCB Tails | SPDT | ON-Momentary | Round Button | | | View |
| SW-PB10-DBB2QE-4 | IP68 High Performance Sealed Pushbutton | PCB Tails | DPDT | ON-Momentary | Round Button | | | View |
| SW-PB11-1CSX-10 | IP67 Sealed Anti-Vandal Pushbutton | Solder Type | SPST | OFF-Momentary | Round Button | | Yes | View |
| SW-PB11-2CSXX-10 | IP67 Sealed Anti-Vandal Pushbutton | Solder Type | SPST | OFF-Momentary | Round Button | Yes | Yes | View |
| SW-PB11-4CSXX-10 | IP67 Sealed Anti-Vandal Pushbutton | Solder Type | SPST | OFF-ON | Round Button | Yes | Yes | View |
| SW-PB2-2EX-A-L1 | Plastic Waterproof Pushbutton | Solder Type | SPDT | 1NO-1NC (Momentary or Latching) | Round Button | | | View |
| SW-PB2-2EX-A-L1A | Plastic Waterproof Pushbutton | Solder Type | SPDT | 1NO-1NC (Momentary or Latching) | Round Button | | | View |
| SW-PB2-2EX-A-RX-X-L1 | Plastic Waterproof Pushbutton | Solder Type | SPDT | 1NO-1NC (Momentary or Latching) | Round Button | Yes | | View |
| SW-PB2-2EX-A-RX-X-L1A | Plastic Waterproof Pushbutton | Solder Type | SPDT | 1NO-1NC (Momentary or Latching) | Round Button | Yes | | View |
| SW-PB5-AA2BX1X-IP40-8 | IP40 Industrial Pushbutton | Solder Type | SPDT | NO-NC Momentary | Round Button | Yes | | View |
| SW-PB5-AA3BX1X-IP40-8 | IP40 Industrial Pushbutton | Solder Type | SPDT | NO-NC Momentary | Round Button | Yes | | View |
| SW-PB5-AB3BX1X-IP40-8 | IP40 Industrial Pushbutton | Solder Type | SPDT | NO-NC Momentary | Square Button | Yes | | View |
| SW-PB7-01B32BFM | Anti-Vandal Pushbutton (IP65 or IP67) | Solder Type | SPST | OFF-Momentary | Round Button | | | View |
| SW-PB7-01B32BRM | Anti-Vandal Pushbutton (IP65 or IP67) | Solder Type | SPST | OFF-Momentary | Round Button | | | View |
| SW-PB7-01LB42BFRXXXXM | Anti-Vandal Pushbutton (IP65 or IP67) | Solder Type | SPST | OFF-Momentary | Round Button | Yes | | View |
| SW-PB7-01PB4EBRXM | Anti-Vandal Pushbutton (IP65 or IP67) | Solder Type | SPST | OFF-Momentary | Round Button | | | View |
| SW-PB7-03LB22CFPXXXXX | Anti-Vandal Pushbutton (IP65 or IP67) | Solder Type | SPDT | NO-NC | Round Button | Yes | | View |
| SW-PB7-03LB22CFRXXXXX | Anti-Vandal Pushbutton (IP65 or IP67) | Solder Type | SPDT | NO-NC | Round Button | Yes | | View |
| SW-PB7-03LB32DFRXXXX | Anti-Vandal Pushbutton (IP65 or IP67) | Solder Type | SPDT | NO-NC | Round Button | Yes | | View |
| SW-PB7-03LB5CFRXXXXX | Anti-Vandal Pushbutton (IP65 or IP67) | Solder Type | SPDT | NO-NC | Round Button | Yes | | View |
| SW-PB7-04B42AR | Anti-Vandal Pushbutton (IP65 or IP67) | Solder Type | SPST | Latching | Round Button | | | View |
| SW-PB7-04B4WAR | Anti-Vandal Pushbutton (IP65 or IP67) | Solder Type | SPST | Latching | Round Button | | | View |
| SW-PB7-04MB42ARM | Anti-Vandal Pushbutton (IP65 or IP67) | Solder Type | SPST | Momentary | Round Button | | | View |
| SW-PB7-04MB4WARM | Anti-Vandal Pushbutton (IP65 or IP67) | Solder Type | SPST | Momentary | Round Button | | | View |
| SW-PB7-05B22FR | Anti-Vandal Pushbutton (IP65 or IP67) | .187" QC | SPST | Momentary or Latching | Round Button | | | View |
| SW-PB7-06B22FF | High Current Anti-Vandal Pushbutton (Right Angle) | .187" QC | SPDT | ON-ON Latching | Round Button | | | View |
| SW-PB7-06LB22FFPXXXXX | High Current Anti-Vandal Pushbutton (Right Angle) | .187" QC | SPDT | ON-ON Latching | Round Button | Yes | | View |
| SW-PB7-06LB22FFRXXXXX | High Current Anti-Vandal Pushbutton (Right Angle) | .187" QC | SPDT | ON-ON Latching | Round Button | Yes | | View |
| SW-PB7-07LB42CRRXXXXX | Anti-Vandal Pushbutton (IP65 or IP67) | Solder Type | SPST | OFF-ON | Round Button | Yes | | View |
| SW-PB7-1S-D-G1 | Anti-Vandal Pushbutton (IP65 or IP67) | Screw Lug | SPST | Momentary | Round Button | | | View |
| SW-PB7-1X-A-LRX-H-X-G2A | Anti-Vandal Pushbutton (IP65 or IP67) | Solder Type | SPST | Momentary or Latching | Round Button | Yes | | View |
| SW-PB7-1X-A-RX-H-X-G2A | Anti-Vandal Pushbutton (IP65 or IP67) | Solder Type | SPST | Momentary or Latching | Round Button | Yes | | View |
| SW-PB7-1Z-A-RX-H-X-G2 | Anti-Vandal Pushbutton (IP65 or IP67) | Solder Type | SPST | ON-OFF | Round Button | Yes | | View |
| SW-PB8-AA00A1GE-2 | IP68 Sealed Snap-Acting Pushbutton | Solder Type | SPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB8-AA00A1QE-3 | Alternate Acting Pushbutton | Solder Type | SPDT | ON-ON | Round Plunger | | | View |
| SW-PB8-AA00A2GE-2 | IP68 Sealed Snap-Acting Pushbutton | PCB Type | SPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB8-AA00A2QE-3 | Alternate Acting Pushbutton | PCB Type | SPDT | ON-ON | Round Plunger | | | View |

| PART NUMBER | PUSHBUTTON SWITCH TYPE | TERMINATION STYLE | CIRCUIT | FUNCTION | ACTUATOR TYPE | LED LIGHTED ACTUATOR | CAP | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|
| SW-PB8-AA00B11GE-2 | IP68 Sealed Snap-Acting Pushbutton | PCB Type | SPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB8-AA00B1GE-2 | IP68 Sealed Snap-Acting Pushbutton | Solder Type | SPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB8-AA00B2GE-2 | IP68 Sealed Snap-Acting Pushbutton | PCB Type | SPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB8-AA12B1GE-2 | IP68 Sealed Snap-Acting Pushbutton | Solder Type | SPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB8-AA22A1QE-3 | Alternate Acting Pushbutton | Solder Type | SPDT | ON-ON | Round Plunger | | Yes | View |
| SW-PB8-AA22A2QE-3 | Alternate Acting Pushbutton | PCB Type | SPDT | ON-ON | Round Plunger | | Yes | View |
| SW-PB8-AB00A1QE-1 | Snap-Acting Pushbutton | Solder Type | SPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB8-AB00A2QE-1 | Snap-Acting Pushbutton | PCB Type | SPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB8-AB00B10QE-1 | Snap-Acting Pushbutton | PCB Type | SPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB8-AB00B6QE-1 | Snap-Acting Pushbutton | PCB Type (Right Angle) | SPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB8-AB12A1QE-1 | Snap-Acting Pushbutton | Solder Type | SPDT | ON-Momentary | Round Plunger | | Yes | View |
| SW-PB8-AE221QE-1 | Snap-Acting Pushbutton | Solder Type | SPDT | ON-Momentary | Square Button | | | View |
| SW-PB8-AE222QE-1 | Snap-Acting Pushbutton | PCB Type | SPDT | ON-Momentary | Square Button | | | View |
| SW-PB8-BA00A1QE-3 | Alternate Acting Pushbutton | Solder Type | DPDT | ON-ON | Round Plunger | | | View |
| SW-PB8-BA00A2QE-3 | Alternate Acting Pushbutton | PCB Type | DPDT | ON-ON | Round Plunger | | | View |
| SW-PB8-BA00B1GE-2D | IP68 Sealed Snap-Acting Pushbutton | Solder Type | DPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB8-BA00B2GE-2D | IP68 Sealed Snap-Acting Pushbutton | PCB Type | DPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB8-BB00A1QE-1 | Snap-Acting Pushbutton | Solder Type | DPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB8-BB00A2QE-1 | Snap-Acting Pushbutton | PCB Type | DPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB8-BB00B10QE-1 | Snap-Acting Pushbutton | PCB Type | DPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB8-BB00B6QE-1 | Snap-Acting Pushbutton | PCB Type (Right Angle) | DPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB8-BB12A1QE-1 | Snap-Acting Pushbutton | Solder Type | DPDT | ON-Momentary | Round Plunger | | Yes | View |
| SW-PB8-BE221QE-1 | Snap-Acting Pushbutton | Solder Type | DPDT | ON-Momentary | Square Button | | | View |
| SW-PB8-BE222QE-1 | Snap-Acting Pushbutton | PCB Type | DPDT | ON-Momentary | Square Button | | | View |
| SW-PB9-AA00AQE-5 | Subminiature Pushbutton | Solder Type | SPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB9-AA00BQE-5 | Subminiature Pushbutton | PCB Type | SPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB9-AAB00A1RE-6 | IP67 Sealed Subminiature Pushbutton | PCB Tails | SPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB9-AAB00A2RE-6 | IP67 Sealed Subminiature Pushbutton | PCB Tails (Right Angle) | SPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB9-AB00AQE-5 | Subminiature Pushbutton | Solder Type | SPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB9-AB00BQE-5 | Subminiature Pushbutton | PCB Type | SPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB9-ABA1RE-7 | IP67 Sealed Subminiature Pushbutton | Surface Mount (Right Angle) | SPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB9-ABA2RE-7 | IP67 Sealed Subminiature Pushbutton | Surface Mount (Right Angle) | SPDT | ON-Momentary | Round Plunger | | | View |
| SW-PB9-BA00AQE-5 | Subminiature Pushbutton | Solder Type | SPST | OFF-Momentary | Round Plunger | | | View |
| SW-PB9-BA00BQE-5 | Subminiature Pushbutton | PCB Type | SPST | OFF-Momentary | Round Plunger | | | View |
| SW-PB9-BB00AQE-5 | Subminiature Pushbutton | Solder Type | SPST | OFF-Momentary | Round Plunger | | | View |
| SW-PB9-BB00BQE-5 | Subminiature Pushbutton | PCB Type | SPST | OFF-Momentary | Round Plunger | | | View |
| SW-PB9-BBA1RE-7 | IP67 Sealed Subminiature Pushbutton | Surface Mount (Right Angle) | SPST | OFF-Momentary | Round Plunger | | | View |
| SW-PB9-BBA2RE-7 | IP67 Sealed Subminiature Pushbutton | Surface Mount (Right Angle) | SPST | OFF-Momentary | Round Plunger | | | View |

# Electric Vehicle Charging Cables

STANDARD ELECTRIC VEHICLE CHARGING CABLES

Adam Tech's EV Charging Cables provide a durable and efficient solution to electric vehicle charging. Both Type 1 and Type 2 plugs are available to meet multiple EV charging needs. Equipped with cable lengths of 3 and 5 meters, vehicles can be charged from a variety of distances. In addition, all Adam Tech EV chargers are TUV safety approved. Adam Tech is committed to providing reliable and cost-effective charging solutions to the growing electric vehicle industry.



## FEATURES & SPECIFICATIONS

### FEATURES

Charge electric vehicles
Cable length: 3m [9.84 ft.] and 5m [16.4 ft.]
Type 1 plug according to SAE J1772-2017 standard
Type 2 plug according to IEC62196-1 2014 and IEC62196-2 2017 standards
Glass reinforced thermoplastic insulator, UL 94V-0
Waterproof grade: IP54 or IP55
Current rating: 16A or 32A
Voltage rating: 120 VAC – 480 VAC
Operating temperature: -30°C to +50°C
High reliability design
TUV certified
RoHS compliant

### PACKAGING:

Anti-ESD plastic trays or tubes

### APPROVALS AND CERTIFICATIONS:

UL and TUV

### SPECIFICATIONS:

#### Material:

Standard insulator: PC or PC+PA66
Insulator Color: Black or White
Contacts: Copper Alloy
Contact Plating: Silver

#### Electrical:

Operating Voltage: 120 VAC – 480 VAC
Current Rating: 16A or 32A
Contact Resistance: 0.5 mohms max.
Insulation Resistance: 1,000 Mohms min. @ 500VDC
Dielectric Withstanding Voltage: 2,000V AC

#### Mechanical:

Insertion force: Up to <100 N
Withdrawal force: Up to <100 N
Durability: 10,000 Cycles

#### Temperature Ratings:

Operating Temperature: -30°C to 50°C

| PART NUMBER | PLUG TYPE | AMP | PHASE | PRODUCT DATA |
|---|---|---|---|---|
| CA #EV01AT-002-XM | Type 1 Female | 16A | 1 Phase | View |
| CA #EV01AT-003-XM | Type 1 Female | 16A | 1 Phase | View |
| CA #EV01BT-002-XM | Type 1 Female | 32A | 1 Phase | View |
| CA #EV02AT-003-XM | Type 2 Male | 16A | 1 Phase | View |
| CA #EV02AT-004-XM | Type 2 Male | 16A | 3 Phase | View |
| CA #EV02BT-003-XM | Type 2 Male | 32A | 1 Phase | View |
| CA #EV02BT-004-XM | Type 2 Male | 32A | 3 Phase | View |
| CA #EV03AT-003-XM | Type 2 Female | 16A | 1 Phase | View |
| CA #EV03AT-004-XM | Type 2 Female | 16A | 3 Phase | View |
| CA #EV03BT-003-XM | Type 2 Female | 32A | 1 Phase | View |
| CA #EV03BT-004-XM | Type 2 Female | 32A | 3 Phase | View |

## EV CONNECTOR PART NUMBER CONFIGURATION

**EV - PM - A - 1P - 16A - 240V - XXX**

| SERIES | CONNECTOR STYLE, CONTACT TYPE | SAFETY AGENCY APPROVAL TYPE | PHASE TYPE | CURRENT TYPE | VOLTAGE TYPE | SERIAL NUMBER |
|---|---|---|---|---|---|---|
| **EV** = *EV CHARGER* | *1st Characters for Connector Style*<br>**P**= *Plug Connector*<br>**S** =*Socket Connector*<br>*2nd Character for Contact Type*<br>**M** = *Male Contact*<br>**F** = *Female Contact* | **A**= *Type 1 (US)*<br>**B**= *Type 2 ( EU)* | **1P**= *1 PHASE*<br>**3P**= *3 PHASE* | **16A**= *16AMP*<br>**32A**= *32AMP*<br>**40A**= *40AMP*<br>**50A**= *50AMP*<br>**63A**= *63AMP* | **240V**= *240VAC*<br>**415V**= *415VAC*<br>**250V**= *250VAC*<br>**480V**= *480VAC* | **001**<br>**002**<br>**003**<br>**004**<br>**...** |

## EV CABLE PART NUMBER CONFIGURATION

**CA #EV - 01 - A - U - XXX - 1M**

| SERIES | CONNECTOR STYLE, CONTACT TYPE | CABLE TYPE | SAFETY AGENCY APPROVAL TYPE | SERIAL NUMBER | CABLE LENGTH |
|---|---|---|---|---|---|
| **CA #EV** = *Cable Assembly EV Charger* | **01**= *Type 1 Female Plug*<br>**02**= *Type 2 Male Plug*<br>**03**= *Type 2 Female Plug*<br>**04**= *Type 1 Female Plug-Type 2 Male Plug*<br>**05**= *Type 2 Male Plug-Type 2 Female Plug*<br>**06**= *Type 1 Male Socket*<br>**07**= *Type 2 Female Socket*<br>**08**= *Type 2 Male Socket* | **A**= *2.5mm²*<br>**B**= *6 mm²*<br>**C**= *10 mm²*<br>**D**= *16 mm²*<br>**E**= *13.3 mm²*<br>**F**= *50 mm²*<br>**G**= *35 mm²*<br>**H**= *70 mm²*<br>**J**= *1.0mm²* | **U**= *UL*<br>**T**= *TUV*<br>**X**= *N/A*<br>**C**= *CE* | **001**<br>**002**<br>**003**<br>**004**<br>**...** | **1M**= *1000mm*<br>**5M**= *5000mm*<br>**1.5M**= *1500mm* |

### OPTIONS

*Add designator(s) to end of part number*
**HLR** = *HOLDER*

# Electric Vehicle Charging Cables

## NACS ELECTRIC VEHICLE CHARGING CABLES

NACS (North American Charging Standard) Electric Vehicle Charging Cables, originally developed by Tesla, are quickly becoming the most widely used EV chargers on the market. Currently the most common charging standard in North America, they boast numerous safety mechanisms, such as heat reduction, to ensure safe and reliable charging for customers. In addition to these benefits, Adam Tech's NACS chargers support AC charging, with DC charging versions in development, as well as options for cable length, current rating, and thermistors.



## FEATURES & SPECIFICATIONS

### FEATURES:

Charges Tesla vehicles and other cross-manufacturers standardized for NACS
Meets SAE J3400 standards for highest compatibility.
UL 2251 certified
Produced in IATF 16949 facility
IP67 waterproof when plugged in
Added thermistor temperature sensor technology for additional heat protection.
Standard cable length options: 3m [9.84 ft.], 4m [13.12 ft.], 5m [16.4 ft.].
Custom cable assembly solutions
Highly durable glass reinforced thermoplastic insulator, UL 94V-0 rated
Robust pin touch protection for added safety, meeting IP2XB degree of protection
Ergonomic handle for ease of use
AC charging  (DC charging options in development)

### SPECIFICATIONS:

#### Material:

Insulator: (PC) Thermoplastic, rated UL94V-0
Insulator color: Black
Contacts: Copper alloy, silver plated surface

#### Electrical:

Voltage rating: 240VAC
Current rating: 16A, 32A, 40A and 48A
Resistance: R6 150Ω R7 330Ω (PCBA)
Dielectric withstanding voltage: 2000 or 2500VDC

#### Mechanical:

Durability: >10,000 cycles
Insertion and extraction force: <100N

#### Temperature Rating:

Operating temperature range: -40°C to +55°C

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. FFVI2.E527051

### NACS EV PART NUMBER CONFIGURATION

| CA #EV | - | AC | - | 40A | S | - | T | - | 1M |
|---|---|---|---|---|---|---|---|---|---|

| SERIES | VOLTAGE | CURRENT RATING | EV CABLE TYPE | THERMISTOR OPTION | CABLE LENGTH |
|---|---|---|---|---|---|
| **CA #EV** = *Cable Assembly EV Charger* | **AC** = *AC (Alternating Current)* | **16A** = *16 Amps*<br>**32A** = *32 Amps*<br>**40A** = *40 Amps*<br>**48A** = *48 Amps* | **S** = *Standard* | **T** = *Thermistor*<br>**Blank** = *No Thermistors* | **1M** = *1000mm*<br>**5M** = *5000mm*<br>**1.5M** = *1500mm*<br>**6.1M** = *6100mm* |

| PART NUMBER | AMP | THERMISTOR | PRODUCT DATA |
|---|---|---|---|
| CA #EV-AC-16AS-T-XM | 16 | Yes | View |
| CA #EV-AC-16AS-XM | 16 | No | View |
| CA #EV-AC-32AS-T-XM | 32 | Yes | View |
| CA #EV-AC-32AS-XM | 32 | No | View |
| CA #EV-AC-40AS-T-XM | 40 | Yes | View |
| CA #EV-AC-40AS-XM | 40 | No | View |
| CA #EV-AC-48AS-T-XM | 48 | Yes | View |
| CA #EV-AC-48AS-XM | 48 | No | View |

# Electric Vehicle Charging Cables

## PORTABLE NACS ELECTRIC VEHICLE CHARGING CABLES

Adam Tech's line of North American Charging Standard (NACS) EV products is further enhanced with Portable NACS EV Chargers. These portable chargers offer the benefits of NACS, with the added convenience of mobility. In addition, they provide the ability to adjust amperage, allowing users to choose the charging rate that best suits their needs and available power outlets. Adam Tech's line of NACS products supports NEMA 5-15P, 6-20P, and 14-50P, as well as CEE32, with custom options available.



## FEATURES & SPECIFICATIONS

### FEATURES:

Charges Tesla vehicles and other cross-manufacturers standardized for NACS
Portable design
Meets SAE J3400 standards for highest compatibility
UL recognized
Produced in our IATF 16949 facility to ensure the highest quality, safety, and construction
IP67 waterproof when plugged in
20ft cable length
Thermistor temperature sensor technology for additional heat protection (power supply will suspend if temperature surpasses 95 ±5°C, not resuming until the temperature drops below 65 ±5°C)
Highly durable glass reinforced thermoplastic insulator, UL 94V-0 rated
Ergonomic handle for ease of use
AC charging with current rating options ranging from 8A to 40A
Voltage rating: 240 VAC

### SPECIFICATIONS:

**Material:**
Insulator: Thermoplastic, rated UL94V-0
Insulator color: Black
Contacts: Copper alloy, silver plated surface

**Electrical:**
Voltage rating: 240VAC
Current rating: 8A, 10A, 13A, 16A, 20A, 24A, 32A, and 40A
Resistance: R6 150Ω R7 330Ω
Dielectric withstanding voltage: 2500V

**Mechanical:**
Durability: >10,000 cycles
Insertion and extraction force: <100N

**Temperature Rating:**
Operating temperature range: -30°C to +55°C

**Environmental:**
Waterproof: IP67

**Approvals and Certifications:**
UL Recognized File no. FFVI2.E527051

| PART NUMBER | POWER PLUG | ADJUSTABLE CURRENT RATING RANGE | PRODUCT DATA |
|---|---|---|---|
| CA #EV-AC-16AP-A01-6.1M | NEMA 6-20P | 8A to 16A | View |
| CA #EV-AC-16AP-A01-6.1M-A | NEMA 6-20P | 8A to 16A | View |
| CA #EV-AC-16AP-A02-6.1M | NEMA 14-50P | 8A to 16A | View |
| CA #EV-AC-16AP-A04-6.1M | NEMA 5-15P | 8A to 16A | View |
| CA #EV-AC-16AP-A04-6.1M-A | NEMA 5-15P | 8A to 16A | View |
| CA #EV-AC-32AP-B02-6.1M | NEMA 14-50P | 16A to 32A | View |
| CA #EV-AC-32AP-B05-6.1M | CEE32 | 16A to 32A | View |
| CA #EV-AC-40AP-C02-6.1M | NEMA 14-50P | 16A to 40A | View |

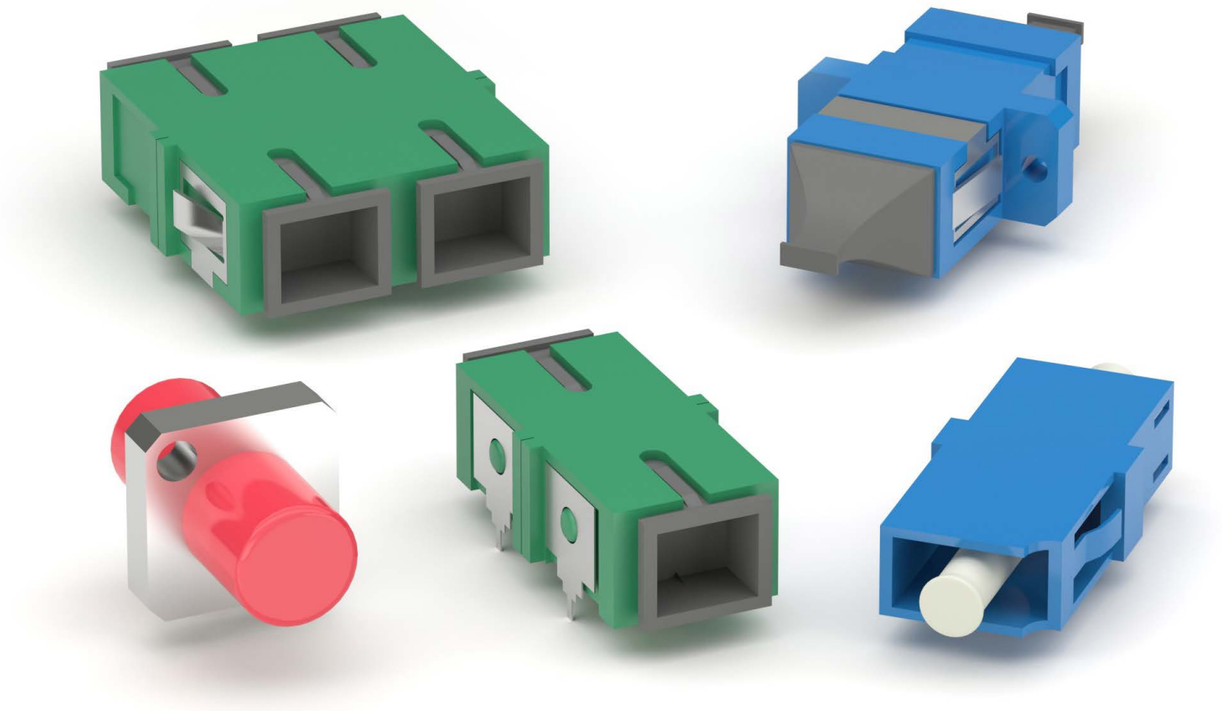
## PORTABLE NACS EV PART NUMBER CONFIGURATION

**CA #EV - AC - 16A P - A - 01 - 6.1M - A**

| SERIES | VOLTAGE | MAX CURRENT RATING | EV CABLE TYPE | CABLE TYPE | PLUG TYPE | CABLE LENGTH | THERMISTOR TEMPERATURE SENSOR OPTION |
|---|---|---|---|---|---|---|---|
| **CA #EV** = *Cable Assembly EV Charger* | **AC** = *AC (Alternating Current)* | **16A** = *16 Amps*<br>**32A** = *32 Amps*<br>**40A** = *40 Amps* | **P** = *Portable* | **A** = *EV Side 3X14 AWG + 2X18 AWG, Plug Side 3X14 AWG*<br>**B** = *EV Side 3X10 AWG + 2X18 AWG, Plug Side 3X10 AWG*<br>**C** = *EV Side 3X9 AWG + 2X18 AWG, Plug Side 1X10 + 2X8 AWG* | **01** = *Nema 6-20P*<br>**02** = *Nema 14-50P*<br>**04** = *Nema 5-15P*<br>**05** = *CEE32* | **6.1M** = *6100mm* | **A** = *Thermistor*<br>**Blank** = *No Thermistor* |

# Fiber Optic Adapters

Adam Tech's Fiber Optic Adapters properly align the individual fibers of two patch cables during the mating process, ensuring reliable connections in optical communication systems. These adapters enable multiple devices to communicate simultaneously. Adam Tech's broad offering includes APC, FC, LC, MPO, PC, and SC adapters. Simplex, duplex, 4-plex, and 8-plex adapters are available to connect various quantities of fibers.



## FEATURES & SPECIFICATIONS

### FEATURES:
APC, FC, LC, MPO, PC, and SC
Simplex, duplex, 4-plex, and 8-plex
Long-ears and short-ears
Panel mount option
UL 94V-0 rated housings
Various colors
Dust caps

### SPECIFICATIONS:

### Material:
Housing: PBT or PEI, rated UL 94-V 0
Cap: PBT or PP, rated UL 94-V 0
Sleeve: Zirconia Ceramic

### Electrical:
Standards of IEC, EIA/TIA, Telcordia; or IEC 61754-20, YD/T 1272.1-2003
Repeatability: 500 cycles min
Insertion loss range: 0.2 to 0.3dB max
Interchangeability range: 0.2 to 0.3dB max

### TEMPERATURE RATING:
Operating temperature range: -40°C to +85°C

| PART NUMBER | ADAPTER TYPE | VERSION | PRODUCT DATA |
|---|---|---|---|
| CA #OPLN2PNNC1NSR | LC Adapter Plug Cable Assembly | Duplex | View |
| CA #OPSN1PNNC1NSR-C1 | SC Adapter Plug Cable Assembly | Simplex | View |
| OPFN1ANNC1XNB | FC Square Adapter | Simplex | View |
| OPLB4SBNNC1NA | LC/PC Adapter | 4-Plex | View |
| OPLB8SBNNC1NA | LC/PC Adapter | 8-Plex | View |
| OPLX1BNNC1NA | LC/PC Adapter | Simplex | View |
| OPLX2ANNC1XA | LC Adapter | Duplex | View |
| OPLX2BNNC1XA | LC Adapter | Duplex | View |
| OPLX4ANNC1XA | LC/PC Adapter | 4-Plex | View |
| OPMX1ANNC1XC | MPO Adapter | Simplex | View |
| OPMX1BNNC1XC | MPO Adapter | Simplex | View |
| OPSB1ANNC1N1T3 | SC/PC Adapter | Simplex | View |
| OPSLN1ANNC1P2A | SC/LC Adapter | Simplex | View |
| OPSX1ANNC1X1 | SC/PC Adapter | Simplex | View |
| OPSX1ANNC2X2 | SC/APC Adapter | Simplex | View |
| OPSX1ASNC1X1 | SC/APC Adapter | Simplex | View |
| OPSX1ASNC1X4 | SC/APC Adapter | Simplex | View |
| OPSX1BNPC1N1 | SC/APC Adapter | Simplex | View |
| OPSX1BNSC1NX | SC/APC Adapter | Simplex | View |
| OPSX1BSNC1X1 | SC/APC Adapter | Simplex | View |
| OPSX1DNNC1NX | SC/APC Adapter | Simplex | View |
| OPSX2ANNC1XX | SC/PC Adapter | Duplex | View |
| OPSX2BNNC1X1 | SC/APC Adapter | Duplex | View |

## PART NUMBER CONFIGURATION

| OPS | A | 1 | A | S | S | C1 | P |
|---|---|---|---|---|---|---|---|
| SERIES | COLOR DEFINITION & MEANING | NO OF PORTS | TYPE | FORMING TYPE | PIN TYPE | SERIAL NUMBER | FORMING TYPE |
| **OPS** = *Optical SC Adapters*<br>**OPL** = *Optical LC Adapters*<br>**OPF** = *Optical FC Adapters*<br>**OPM** = *Optical MPO Adapters* | **A** = *Green -APC*<br>**B** = *Blue -PC / UPC*<br>**C** = *Beige-MM*<br>**D** = *Water blue- MO3*<br>**E** = *Pink- OM4*<br>**F** = *Red- OM5*<br>**G** = *Black* | **1, 2,.....**<br>**4S (SQ)...** | **P** = *PLUG*<br>**A** = *long-eared*<br>**B** = *Short ears*<br>**C** = *No ears*<br>**D** = *Buckles type diameter 3.00*<br>**E** = *Buckles type diameter 4.40*<br><br>*FC SERIES*<br>**A** = *square With positioning hole adapters*<br>**B** = *rectangle with positioning hole adapters*<br>**C** = *square no positioning hole adapters* | **S** = *Solid Block*<br>**N** = *Not Solid Block* | **S** = *soldering Pin*<br>**P** = *Press-fit Pin*<br>**N** = *No Pin* | **C1**<br>**C2**<br>**C3**<br>.<br>.<br>. | **P** = *Panel Ground Tabs*<br>**N** = *Not Panel Ground Tabs* |

### OPTIONS
*Add designator(s) to end of part number*
**1** = *SC Two type dust cap*
**2** = *SC Cucurbit type dust cap*
**3**= *SC Cucurbit type dust cap--No positioning bar*
**4** = *SC small handle dust cap*
**5** = *SC long handle dust cap*
**6** = *SC twin-core dust cap*
**7** = *SC Cucurbit type dust cap--soft*
**8** = *SC Cucurbit type dust cap—green*
**9** = *SC Cucurbit type dust cap—blue*
**A** = *LC dust cap*
**B** = *FC dust cap*
**C** = *MPO dust cap*



CA_OPLN2PNNC1NSR



OPLB8SBNNC1NA



OPSX1ANNC2X2



OPSB1ANNC1N1T3



OPSX2ANNC1XX

# FAKRA Connectors

Adam Tech FAKRA Connectors are SMB based automotive-grade connectors that can operate up to 6 GHz. These connectors are embedded within a special color-code plastic housing that contain a locking feature with an audible clicking noise which confirms the connection. We offer our FAKRA series in Standard, High Speed Data and Mini styles.  Each style comes with a range of configurability options to choose the appropriate keying for your application.



## FEATURES & SPECIFICATIONS

### FEATURES

### MATING CONNECTORS:

### PACKAGING:
Anti-ESD plastic trays or tubes

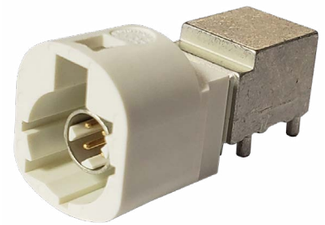
### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

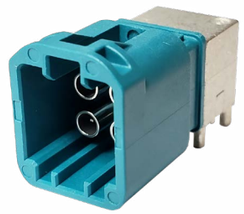
**Material:**
Standard insulator: PA66 + 30% Glass Filled or PTFE
Insulator Color: Varies depending on choice of key
Contacts: Brass
Body: Brass
Contact Plating: Gold over nickel

**Electrical:**
Frequency Range: DC~4 Ghz
Nominal Impedance: 50 ohms
Withstanding Voltage: 335 V
Insulator Resistance: 1000 mohms
Contact Resistance:  6 mohms max  (Center contact)
1 mohms max  (Outer contact)

**Temperature Ratings:**
Operating Temperature:  -40C to +85C



**High Speed Data FAKRA, B Code, Plug, PCB Right Angle**



**Mini FAKRA, Z Code, Plug, PCB Right Angle**



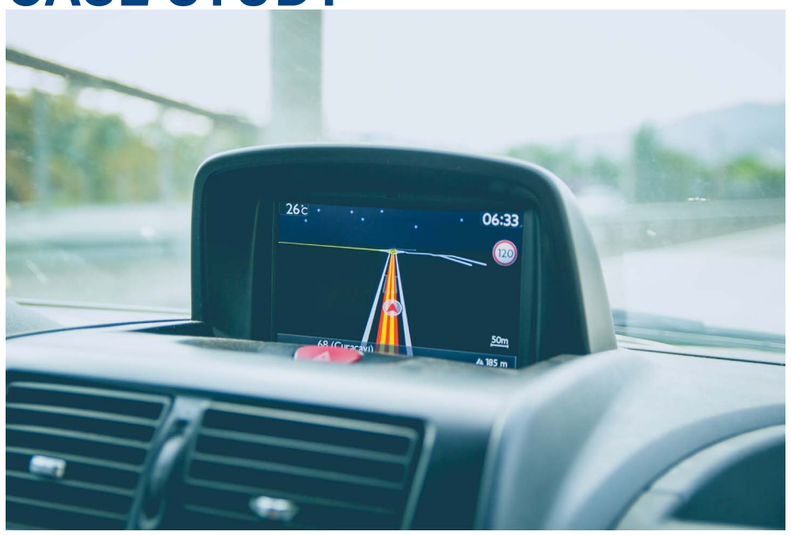
**FAKRA, E Code, SMB, Vertical Board Mount**

## PART NUMBER CONFIGURATION

| RF | - | 55 | - | 01X | - | D | - | 01 | - | 50 | - | G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

| SERIES | STYLE | TYPE | INSULATOR MATERIAL | CABLE TYPE OR APPLICATION | IMPEDENCE | OPTIONS |
|---|---|---|---|---|---|---|
| **RF** = *RF Connector* | **55** = *FAKRA* | **01** *thru* **80** *CODE* **A, B, C, D, E, F, G, H, I, K, L, M, N, Z** *(refer to color-code chart on page 23)* | **T** = *Teflon, PTFE*<br>**T** = *TPEE*<br>**D** = *Delrin, POE, POM*<br>**P** = *Polypropylene, PP*<br>**L** = *LCP*<br>**A** = *ABS*<br>**Y** = *NYLON* | **00** = *PCB Mount*<br>**01** = *55U/58/58A/58C/140U/141/141A/142U/223U/303*<br>**02** = *174U/188A/316U/RTK031*<br>**03** = *179U/187U*<br>**04** = *59/59A/59B/62/62AU/62B/62C/210*<br>**05** = *RG 6/U*<br>**06** = *RG 213/U*<br>**07** = *.141-Semi-Rigid*<br>**08** = *.085/.086-Semi-Rigid/RG113 (COAX)*<br>**09** = *1.13mm or 1.32 mm*<br>**12** = *213*<br>**17** = *夾板式*<br>**18** = *734A*<br>**21** = *178/178U/1.37mm/1.48mm*<br>**25** = *LMR400/RG405*<br>**26** = *RG 11/U*<br>**AS** = *Adapter or Splitter* | **50** = *50 Ohms*<br>**75** = *75 Ohms* | *Add designator(s) to end of part number*<br>**G** = *Gold plated body and contact*<br>**T/R** = *Tape and reel packaging*<br>**M** = *Metal Body*<br>**HDW** = *Hardware* |

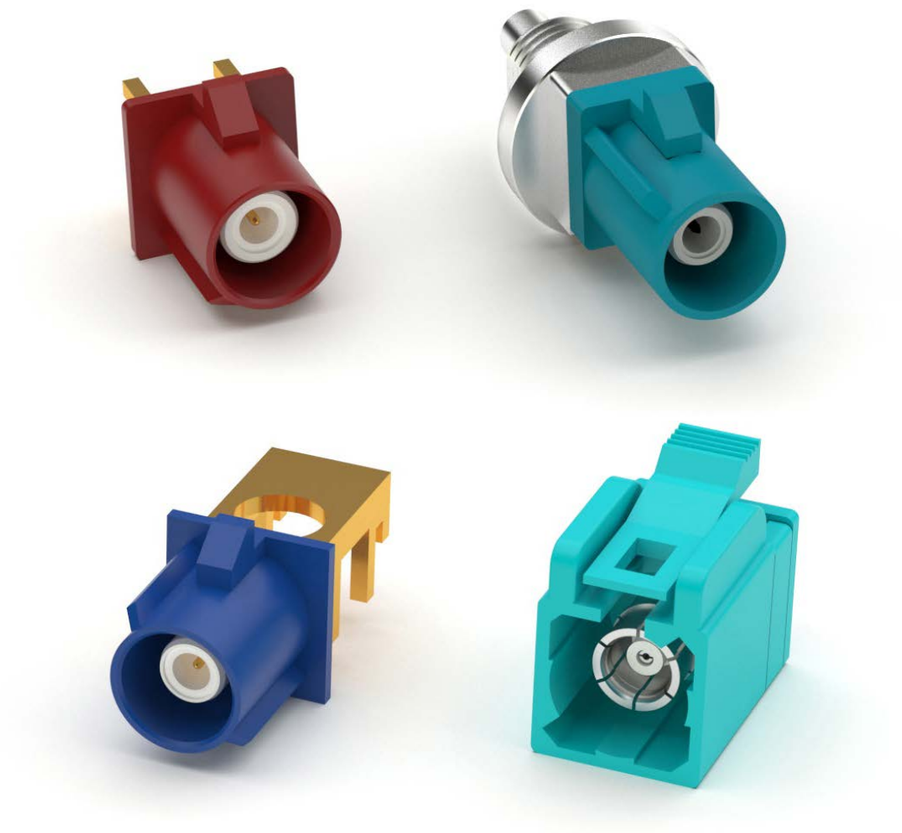
## CASE STUDY




FAKRA Connectors are utilized throughout automotive vehicles.  These connectors and cables transmit data for applications such as GPS navigation, Bluetooth, keyless entry, and climate control.

# Standard FAKRA Connectors

Adam Tech FAKRA Connectors (Fachkreis Automobil, a German standard) are SMB based automotive-grade connectors that can operate up to 6 GHz. These connectors are embedded within a special color-code plastic housing that contain a locking feature with an audible clicking noise which confirms the connection.



## FEATURES & SPECIFICATIONS

### FEATURES:
SMA and SMB
Jacks and plugs
Color codes: A through N, and Z
4 GHz frequency
Contact and shield termination: crimp or solder
Mounting type: free-hanging, panel mount, or through-hole
Vertical, right angle, or cable mount
Fastening type: latch lock or locking ramp
Bulkhead nut mounting feature
IP67 waterproof connectors
Coaxial cable options such as RG-174 and RG-316

### SPECIFICATIONS:

### Material:
Shell: PA66
Insulator: PTFE
Body: Brass, nickel or gold plated
Pin: Phosphor bronze, brass, or beryllium copper

### Contact Plating:
Pin: Gold plated

### Electrical:
DC~4 GHz
Nominal impedance: 50 ohms
Withstanding voltage: 335 V
Insulator resistance: 1000 MΩ
Contact resistance: 6 mΩ center contact and 1 mΩ outer contact

### TEMPERATURE RATING:
Operating temperature range: -40°C to +85°C

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

| PART NUMBER | TYPE | WATERPROOF | PRODUCT DATA |
|---|---|---|---|
| RF55-23X-T-00-50-G-X-SH | SMB - Right Angle Board Mount | | View |
| RF55-24X-T-09-50-X-SH | SMA Bulkhead - Cable Mount | IP67 | View |
| RF55-25X-T-00-50-G-SH | SMB - Vertical Board Mount - Tall Body | | View |
| RF55-26X-T-09-50-X-SH | SMA Bulkhead - Cable Mount | IP67 | View |
| RF55-27X-T-02-50-X-SH | SMB - Cable Mount for Panel - Straight | | View |
| RF55-28X-T-00-50-G-SH | SMB - Vertical Board Mount - Standard Body | | View |
| RF55-29X-T-00-50-G-SH | SMB - Vertical Board Mount - Standard Body | | View |
| RF55-30X-T-00-50-G-SH | SMB - Vertical Board Mount - Standard Body | | View |
| RF55-31X-T-02-50-X-SH | SMB - Cable Mount for Panel - Straight | | View |
| RF55-32X-T-00-50-X-SH | SMB - Right Angle Board Mount- Short Body | | View |
| RF55-33X-T-00-50-X-SH | SMB - Right Angle Board Mount | | View |
| RF55-34X-T-02-50-SH | SMB - Cable Mount for Panel - Straight | | View |

| Code (X) | Applications | Color/RAL |
|---|---|---|
| A | Radio without phantom supply | Jet Black / 9005 |
| B | Radio with phantom supply | Cream White / 9001 |
| C | GPS: telematics or navigation | Signal Blue / 5005 |
| D | GSM | Claret Violet / 4004 |
| E | TV1 / SDARS | Leaf Green / 6002 |
| F | TV2 / SDARS | Nut Brown / 8011 |
| G | Remote keyless entry | Blue Gray / 7031 |
| H | GPS: telematics and navigation | Heather Violet / 4003 |
| J | Bluetooth / controlled parking / heating | Beige / 1001 |
| K | Radio with IF | Curry / 1027 |
| L | Not defined | Yellow Green / 6018 |
| M | Not defined | Pastel Orange / 2003 |
| O | Not defined | Light Green / 6027 |
| Z | Neutral coding | Water Blue / 5021 |

# High Speed Data (HSD) FAKRA Connectors

Adam Tech enhances its FAKRA (Fachkreis Automobil) series with its High Speed Data FAKRA connectors. One pin FAKRA connectors are no longer adequate for applications that require higher data transmission rates. HSD FAKRA four pin connectors meet those demands with their 100 ohm impedance-controlled system, offering high speeds and top-quality signal transmission. These high speed connectors are designed to satisfy RF requirements in various telematic and multimedia applications. They provide high performance, cost effective RF interface to FAKRA and USCAR standards. Their SMB based design includes multiple color-coded plastic housings to ensure accurate connections, as well as to meet automotive specifications. Adam Tech's HSD FAKRA connectors are ideal for automotive applications and are designed to meet the operational and environmental requirements of Satellite Digital Audio Radio Service (SDARS), Global System for Mobile Communications (GSM), and Global Positioning System (GPS).



## PART NUMBER CONFIGURATION

| HSD | - 04X | - S | - PS | - SG | - C1 | - T/R |
|---|---|---|---|---|---|---|
| **SERIES** | **POSITIONS+CODE** | **PORTS** | **CONTACT TYPE & MOUNTING ANGLE** | **CONTACT PLATING** | **TYPE** | **PACKING** |
| **HSD** *= HSD Connector* | *PIN =* **04** *CODE*<br>**A** *= BLACK*<br>**B** *= WHITE*<br>**C** *= BLUE*<br>**D** *= BORDEAUX*<br>**E** *= GREEN*<br>**F** *= BROWN*<br>**Z** *= WATER BLUE* | **S** *= SINGLE PORT*<br>**D** *= DUAL PORT* | **PT** *= Plug, Straight PCB*<br>**PR** *= Plug, Right Angle PCB*<br>**PS** *= Plug, SMT*<br>**PD** *= Plug, Solder Type (Cable)*<br>**ST** *= Socket, Straight PCB*<br>**SR** *= Socket, Right Angle PCB*<br>**SS** *= Socket, SMT*<br>**SD** *= Socket, Solder Type (Cable)*<br>**PPT** *= Plug Power, Straight PCB*<br>**PPR** *= Plug Power, Right Angle PCB*<br>**PPR1** *= Reverse Plug Power , Right Angle PCB*<br>**PPS** *= Plug Power, SMT*<br>**PPD** *= Plug Power Solder Type (Cable)*<br>**SPT** *= Socket Power, Straight PCB*<br>**SPR** *= Socket Power, Right Angle PCB*<br>**SPS** *= Socket Power, SMT*<br>**SPD** *= Socket Power Solder Type (Cable)* | **SG** *= Sel Gold Plated*<br>**G** *= Gold*<br>**SGM** *= Sel Gold Matte Tin Plated* | **C1,**<br>**C2,**<br>**C3,**<br>**...CX** | **T/R** *= Tape Reel*<br>**TY** *= Tray*<br>**PT** *= Plastic Tube* |

### FEATURES AND BENEFITS:

High speed data transmission rates up to 6 Gbps
Frequency: DC up to 2.0 GHz
100 ohm differential impedance
4 pins
Color-coded mechanical layouts
Locking feature
Selective gold plating
Shielded for EMI/RFI protection
Multiple connector configurations including straight, right angle, and cable mount
RoHS compliant

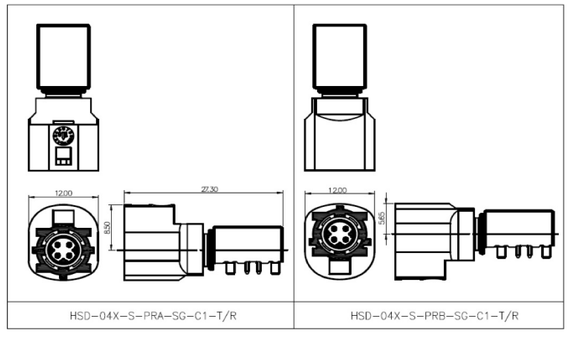
### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

| PART NUMBER | CONTACT TYPE & MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|
| HSD-04X-S-PRX-SG-C1-TR | Plug, Right Angle PCB | View |
| HSD-04X-S-PT-SG-C1-TR | Plug, Straight PCB | View |
| HSD-04X-S-SD-SG-C4 | Socket, Solder Type (Cable) | View |

### RIGHT ANGLE (EXAMPLE)

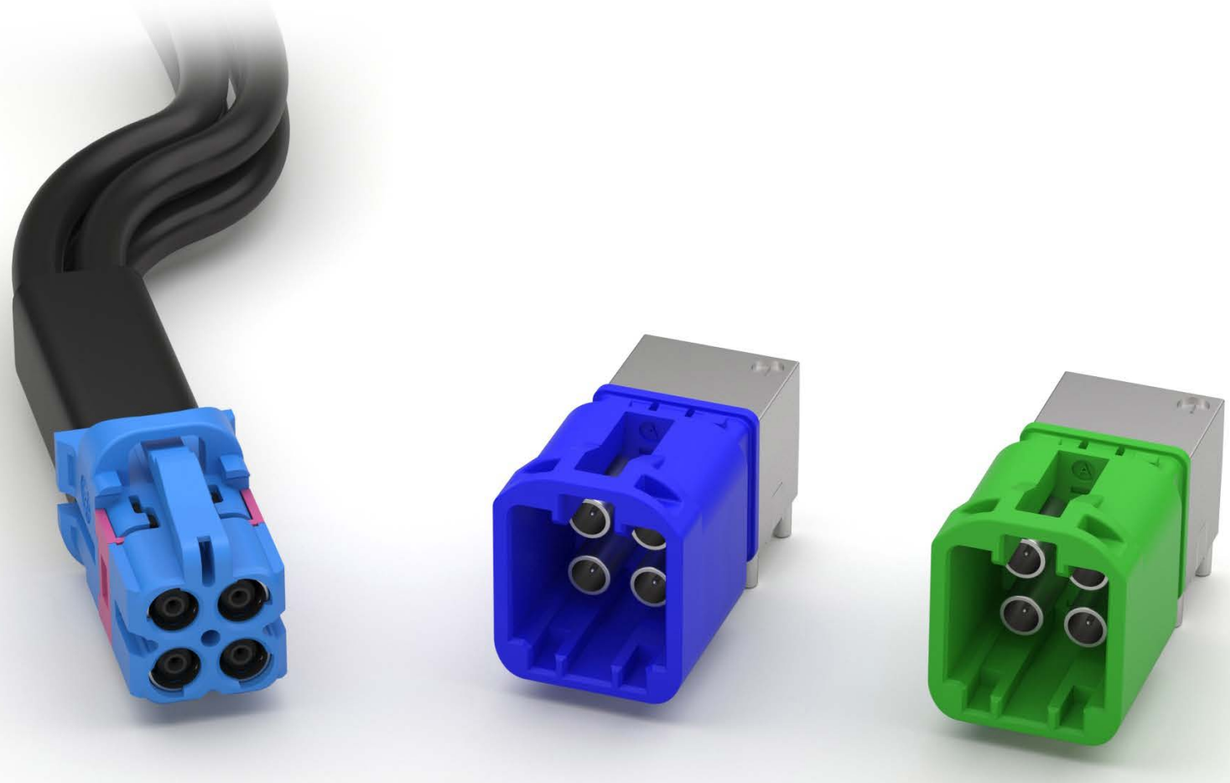
**CODE** *( UP/Down)*
**PRX** *Option*




| Coding | Jack | Plug | Color / RAL-Nr. (similar) |
|---|---|---|---|
| A | | | Jet Black / 9005 |
| B | | | Cream White / 9001 |
| C | | | Signal Blue / 5005 |
| D | | | Claret Violet / 4004 |
| E | | | Leaf Green / 6002 |
| F | | | Nut Brown / 8011 |
| Z | | | Water Blue / 5021 |

# Mini FAKRA Connectors

Adam Tech's High Speed Mini FAKRA Connectors and Cable Assemblies support the automotive industry with the next generation of coaxial technology. These products support data transmission rates up to 20 Gbps, and frequencies up to 9 GHz. Designed with space saving in mind, they require 80% less installation space than standard FAKRAs. Adam Tech's offering includes multiple color-coded board side plugs and double-ended mini FAKRA jack cable assemblies. Mini FAKRA to standard FAKRA cable assemblies are also available, bridging the gap between the two generations.



## FEATURES AND BENEFITS:

### FEATURES:
High speed data transmission rates up to 20 Gbps
Frequency: DC up to 9.0 GHz
Color coded mechanical layouts
Space saving design
Mini FAKRA cable to board connection system
Mini FAKRA to standard FAKRA capabilities
RoHS compliant

## SPECIFICATIONS:

### Material:
Insulator: Thermoplastic
Contacts: Brass
Shell: Zamak, tin plated

### Contact Plating:
Contact area: 80 - 160u" silver plated
Solder tails: 80 - 160u" tin plated
Underplate: 40 - 160u" nickel underplate overall

### Electrical:
Impedance: 50 Ohm
Frequency: DC to 9 GHz
Return loss: ≥ 17 dB to 6 GHz or ≥ 12 dB to 9 GHz
Insertion loss: ≤ 0.75 dB @ 9 GHz
Insulation resistance: 1000 MΩ

### Mechanical:
Mating cycles: ≥ 25 cycles
Engagement force: ≤ 30N
Disengagement force: ≥ 60N

### TEMPERATURE RATING:
Operating temperature range: -40°C to +105°C

## APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

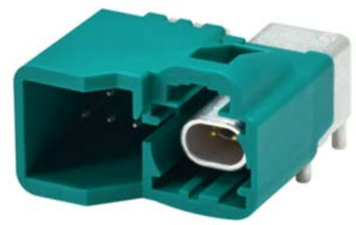
| PART NUMBER | TYPE | VERSION | PRODUCT DATA |
|---|---|---|---|
| CA-AM01XJ-1FJX-XM | Mini FAKRA Jack (1x1) to Standard FAKRA Jack Cable | AM | View |
| CA-AM01XJ-AM01XJ-XM | Double-ended Mini FAKRA Jack Cable (1x1) | AM | View |
| CA-AM04XJ-AM04XJ-XM | Double-ended Mini FAKRA Jack Cable (2x2) | AM | View |
| CA-BM04XJ-4FJX-X | Mini FAKRA Jack (2x2) to Standard FAKRA Jacks Cable | BM | View |
| CA-BM04XJ-4FPX-0.3 | Mini FAKRA Jack (2x2) to Standard FAKRA Plugs Cable | BM | View |
| CA-BM04XJ-BM04XJ-X | Double-ended Mini FAKRA Jack Cable (2x2) | BM | View |
| MHSD-01X-AM-PRX-TR | Mini FAKRA Plug (1x1) | AM | View |
| MHSD-04X-AM-PRX-TR | Mini FAKRA Plug (2x2) | AM | View |
| MHSD-04X-BM-PRX-TR | Mini FAKRA Plug (2x2) | BM | View |



# High Speed Modular Twisted-Pair Data

HT-X SERIES

Adam Tech's High-Speed Modular Twisted-Pair Data (HT-X Series) products offer a fully shielded differential solution engineered for high-speed automotive Ethernet. This innovative interface, consisting of connectors and cable assemblies, delivers data transmission speeds up to 56 Gbps through a robust, automotive-grade connection. The high-performance modular design provides flexibility to support next-generation devices. Adam Tech's HT-X Series is available in a range of configurations, including port quantity, mounting style, color-coded housings, locking, and waterproof.









## FEATURES & SPECIFICATIONS

### FEATURES:

Automotive grade ethernet solution compliant with LV214 / USCAR
Compact, robust, and modular space saving package
Data transmission speeds up to 56 Gbps
Color-coded and keyed mechanical layouts to avoid misconnections
Single, double, quad, and six port housings
Voltage rating up to 60 VDC
Current rating up to 1.5A
TPA (Terminal Position Assurance) available on cables
Optional CPA (Connector Position Assurance) available on cables
Waterproof versions (IP67/IP69K)
MQS 6 pin version available for added power supply

### SPECIFICATIONS:

#### Material:

Coding Housing: PA
Inner Housing: Thermoplastic
Contacts: Copper Alloy

#### Contact Plating:

Contact Area: 6u" gold plated
Solder Tails Area: 80-160u" tin plated
Underplate: 80-160u" nickel underplate overall

#### Electrical:

Working Voltage: ≤ 60V DC
Power Current: ≤ 1.5A VDC
Contact Resistance: 10mΩ max
Insulation Resistance: 100MΩ min
Dielectric Withstanding Voltage: 250V rms
Impedance, Differential Mode: 100Ω
Frequency: DC up to 10 or 20 GHz

#### Mechanical:

Durability: 25 cycles
Engagement Force: 75 or 90N max
Retention Force: 110N min
Coding Efficiency: 80N, 150N, or 225N min

#### Environmental:

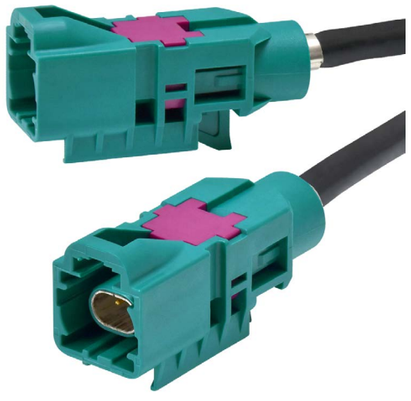
Thermal shock, mechanical shock, humidity & vibration
USCAR-2 & USCAR-17
DIN EN 60512 & DIN IEC 60068
Soldering: IEC 60068-2
Lead free, RoHS compliant

#### Temperature Rating:

Operating Temperature Range: -40°C to +105°C









| PART NUMBER | PRODUCT | CONNECTOR TYPE | PORT CONFIGURATION | ORIENTATION | CABLE LENGTH | PRODUCT DATA |
|---|---|---|---|---|---|---|
| CA-HTJ1X-HTJ1X-MQS-XM | Cable Assembly | Plug | 1x1 +MQS 6Pin | N/A | 1M | View |
| CA-HTJ1X-HTJ1X-XM | Cable Assembly | Plug | 1x1 | N/A | 1M | View |
| CA-HTJ2X-HTJ2X-XM | Cable Assembly | Plug | 1x2 | N/A | 1M | View |
| CA-HTJ4X-HTJ4X-WP-XM | Cable Assembly | Waterproof Plug | 2x2 | N/A | 1M | View |
| CA-HTJ4X-HTJ4X-XM | Cable Assembly | Plug | 2x2 | N/A | 1M | View |
| CA-HTJ6X-HTJ6X-XM | Cable Assembly | Plug | 2x3 | N/A | 1M | View |
| CA-HTP1X-HTP1X-XM | Cable Assembly | Jack | 1x1 | N/A | 1M | View |
| HTX-01XSAMC11R | Connector | Jack | 1x1 | Vertical | N/A | View |
| HTX-01XSBLC1R | Connector | Jack | 1x1 | Right Angle | N/A | View |
| HTX-01XSKMC11R | Connector | Jack | 1x1 +MQS 6Pin | Vertical | N/A | View |
| HTX-01XSLLC11R | Connector | Jack | 1x1 +MQS 6Pin | Right Angle | N/A | View |
| HTX-02XDBLC1R | Connector | Jack | 1x2 | Right Angle | N/A | View |
| HTX-04XDALC11R | Connector | Waterproof Jack | 2x2 | Vertical | N/A | View |
| HTX-04XDBLC1R | Connector | Jack | 2x2 | Right Angle | N/A | View |
| HTX-06XDBLC1R | Connector | Jack | 2x3 | Right Angle | N/A | View |

## CONNECTOR PART NUMBER CONFIGURATION

| HTX | - | 04X | D | B | L | C1 | R |
|---|---|---|---|---|---|---|---|
| **SERIES** | | **POSITIONS+CODE** | **PORTS** | **CONTACT TYPE & MOUNTING ANGLE** | **CONTACT PLATING** | **SERIAL NUMBER** | **PACKAGING** |
| **HTX** = *HMTD Connector* | | **PIN** = *01, 02, 04 or 06*<br>**A** = *Black*<br>**B** = *White*<br>**C** = *Blue*<br>**D** = *Bordeaux*<br>**E** = *Green*<br>**F** = *Brown*<br>**Z** = *Water Blue (refer to color-code chart on page 22)* | **S** = *Single Port*<br>**D** = *Dual Port* | **A** = *Plug, Straight PCB*<br>**B** = *Plug, Right Angle PCB*<br>**C** = *Plug, SMT*<br>**D** = *Plug, Solder Type (Cable)*<br>**E** = *Socket, Straight PCB*<br>**F** = *Socket, Right Angle PCB*<br>**H** = *Socket, SMT*<br>**J** = *Socket, Solder Type (Cable)*<br>**K** = *Plug Power, Straight PCB*<br>**L** = *Plug Power, Right Angle PCB*<br>**M** = *Plug Power, SMT*<br>**N** = *Plug Power, Solder Type (Cable)*<br>**P** = *Socket Power, Straight PCB*<br>**Q** = *Socket Power, Right Angle PCB*<br>**R** = *Socket Power, SMT*<br>**S** = *Socket Power, Solder Type (Cable)* | **L** = *SEL Gold Plated*<br>**G** = *Gold*<br>**M** = *SEL Gold Matte Tin Plated* | | **R** = *Tape & Reel*<br>**Y** = *Tray*<br>**T** = *Plastic Tube* |

## CABLE PART NUMBER CONFIGURATION

| CA | - | HTP | 1 | E | HTP | 1 | E | - | MQS | - | 1M |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SERIES** | | **P1 SIDE GENDER** | **P1 POSITIONS** | **P1 SIDE CODING** | **P2 SIDE GENDER** | **P2 POSITIONS** | **P2 SIDE CODING** | | **OPTIONS** | | **LENGTH** |
| **CA** = *Cable Assembly* | | **HTP** = *Plug*<br>**HTJ** = *Jack* | **1** = *1 Position (1X1)*<br>**2** = *2 Position (1X2)*<br>**3** = *3 Position (1X3)*<br>**4** = *4 Position (2X2)*<br>**6** = *6 Position (2X3)* | **A** = *Black*<br>**B** = *White*<br>**C** = *Light Blue*<br>**D** = *Bordeaux*<br>**E** = *Green*<br>**F** = *Brown*<br>**G** = *Grey*<br>**H** = *Pink*<br>**J** = *Beige*<br>**K** = *Curry*<br>**L** = *Yellow/Green*<br>**M** = *Orange*<br>**O** = *Light Green*<br>**Z** = *Water Blue* | **HTP** = *Plug*<br>**HTJ** = *Jack* | **1** = *1 Position (1X1)*<br>**2** = *2 Position (1X2)*<br>**3** = *3 Position (1X3)*<br>**4** = *4 Position (2X2)*<br>**6** = *6 Position (2X3)* | **A** = *Black*<br>**B** = *White*<br>**C** = *Light Blue*<br>**D** = *Bordeaux*<br>**E** = *Green*<br>**F** = *Brown*<br>**G** = *Grey*<br>**H** = *Pink*<br>**J** = *Beige*<br>**K** = *Curry*<br>**L** = *Yellow/Green*<br>**M** = *Orange*<br>**O** = *Light Green*<br>**Z** = *Water Blue* | | **Blank** = *No options*<br>**MQS** = *Micro Quick-Secure system*<br>**WP** = *IP67* | | **1M** = *1 Meter (1,000mm)* |

# Audio Jacks & Plugs

## STEREO & MONO EARPHONE JACKS

Adam Tech ASJ Series Stereo Jacks are a broad range of 2.5 and 3.5mm jacks used primarily in computer and multi-media audio applications. This series provides a multitude of sizes and configurations that are available in single or multiple switching forms. Options include choice of plastic or metal reinforced bodies, single, stacked and ganged versions or color-coded jacks for port identification.

## FEATURES & SPECIFICATIONS

### FEATURES:
Broad range of sizes and configurations
Single or Multiple switching functions
Plastic or Metal reinforced bodies
Ganged and Stacked versions
Color Coded option for Port Identification

### MATING PLUGS:
All industry standard 2.50mm and 3.50mm mono or stereo plugs.

### PACKAGING:
Anti-ESD plastic bags or Tape and Reel

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Standard insulator: PBT or LCP, Glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Bushing: Brass, Nickel plated
Contacts: Copper alloy

### Contact Plating:
Tin over Copper underplate

### Electrical:
Operating voltage: 12V DC max.
Current rating: 1 Amp max.
Contact resistance: 30 mΩ max. initial
Insulation resistance: 100 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

### Mechanical:
Insertion force: 4.4 lbs max.
Withdrawal force: 0.3 kg min
Mating durability: 5000 cycles min.

### Temperature Rating:
Operating temperature: -25°C to +85°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

## PART NUMBER CONFIGURATION

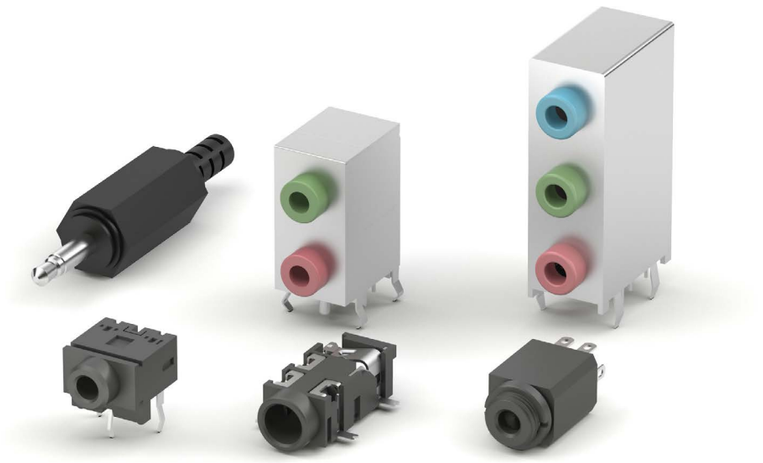
**ASJ - 103 - 3 - T/R**

| SERIES | JACK TYPE | ENTRY ANGLE | OPTIONS: |
|---|---|---|---|
| **ASJ** = *Stereo Jack* | *1, 5, 6, 7, 12, 15, 18, 37, 38, 40, 41, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113* | *(see website for individual schematics)* | *Add designator(s) to end of part number*<br>**HT** = *Hi-Temp Nylon 6T insulator for Hi-Temp soldering processes up to 260°C*<br>**T/R** = *Tape & Reel packaging* |

## PART NUMBER CONFIGURATION

**ASP - 2.5 - S - SR**

| SERIES | SIZE | CONFIGURATION | OPTIONS: |
|---|---|---|---|
| **ASP** = *Audio Stereo Plug* | *2.5 = 2.5mm Dia*<br>*3.5 = 3.5mm Dia*<br>*6.3 = 6.35mm Dia*<br>*6.35 = 6.35mm Dia* | **S** = *Stereo 2 Channel*<br>**M** = *Mono*<br>**S3** = *Stereo 3 Channel* | *Add designator(s) to end of part number*<br>**SR** = *Strain Relief* |



## Audio Jacks

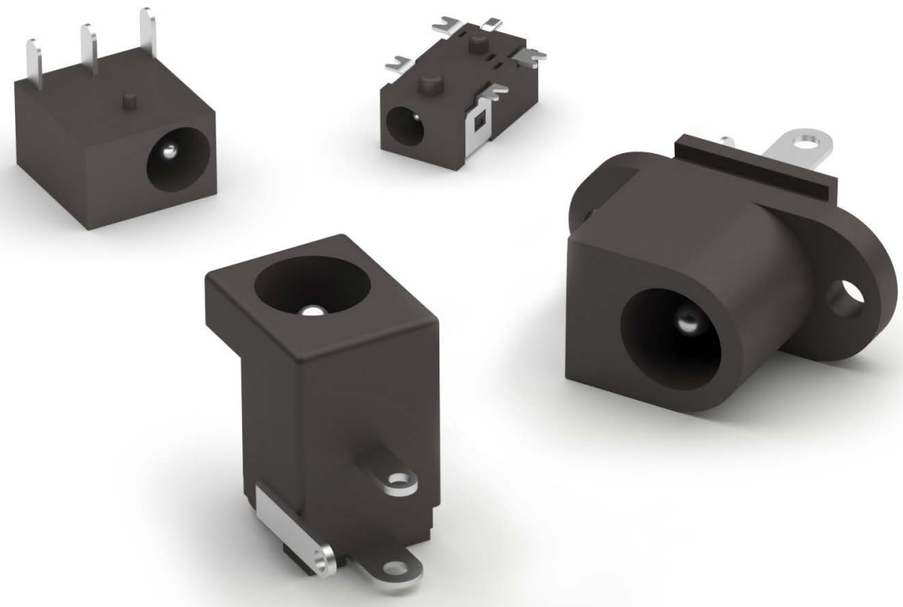
| PART NUMBER | GENDER | SIZE | MOUNTING ORIENTATION | PORTS | OPTIONS | PRODUCT DATA |
|---|---|---|---|---|---|---|
| ASJ-1-X | Receptacle | 3.5mm | Right Angle Through Hole | 1 x 1 | | View |
| ASJ-103-X-T/R | Receptacle | 2.5mm | Right Angle Surface Mount | 1 x 1 | | View |
| ASJ-106-X-G-T/R | Receptacle | 3.5mm | Right Angle Surface Mount | 1 x 1 | | View |
| ASJ-109-X | Receptacle | 3.5mm | Vertical Through Hole | 1 x 1 | | View |
| ASJ-112-X | Receptacle | 3.5mm | Right Angle Surface Mount | 1 x 1 | | View |
| ASJ-113-X | Receptacle | 3.5mm | Vertical Through Hole | 1 x 1 | | View |
| ASJ-125-3 | Receptacle | 3.5mm | Right Angle Surface Mount | 1 x 1 | | View |
| ASJ-137-X-T/R | Receptacle | 3.5mm | Right Angle Surface Mount | 1 x 1 | | View |
| ASJ-145L-X-T/R | Receptacle | 2.5mm | Right Angle Surface Mount | 1 x 1 | | View |
| ASJ-165-M-G-HDW-X | Receptacle | 3.5mm | | 1 x 1 | | View |
| ASJ-18-3-TR | Receptacle | 2.5mm | Right Angle Surface Mount | 1 x 1 | | View |
| ASJ-190-X | Receptacle | 2.5mm | Right Angle Through Hole | 1 x 1 | | View |
| ASJ-192-Y-T/R | Receptacle | 3.5mm | Right Angle Through Hole | 1 x 1 | | View |
| ASJ-193B-L-T/R | Receptacle | 3.5mm | Right Angle Through Hole | 1 x 1 | | View |
| ASJ-194-L-RD-30 | Receptacle | 3.5mm | Vertical Through Hole | 1 x 1 | | View |
| ASJ-195-X-HT | Receptacle | 3.5mm | Right Angle Through Hole | 1 x 1 | | View |
| ASJ-196-K-T/R | Receptacle | 3.5mm | Right Angle Surface Mount | 1 x 1 | | View |
| ASJ-197-U-HT | Receptacle | 3.5mm | Vertical Through Hole | 1 x 1 | | View |
| ASJ-198-Y-HT-T/R | Receptacle | 3.5mm | Right Angle Through Hole | 1 x 1 | | View |
| ASJ-199-X-OF-HT | Receptacle | 3.5mm | Right Angle Through Hole | 1 x 1 | Optical Fiber | View |
| ASJ-200-X-HT | Receptacle | 3.5mm | Right Angle Through Hole | 1 x 1 | | View |
| ASJ-37S-XX | Receptacle | 3.5mm | Right Angle Through Hole | 1 x 1 | | View |
| ASJ-6-XX | Receptacle | 3.5mm | Right Angle Through Hole | 1 x 1 | | View |
| ASJ-99H-X-HT-TR | Receptacle | 3.5mm | Right Angle Through Hole | 1 x 1 | | View |

## Audio Plugs

| PART NUMBER | GENDER | SIZE | MOUNTING ORIENTATION | PORTS | OPTIONS | PRODUCT DATA |
|---|---|---|---|---|---|---|
| ASP-2.5-M | Plug (Mono) | 2.5mm | | | | View |
| ASP-2.5-S-SR | Plug (Mono) | 2.5mm | | | | View |
| ASP-3.5-S | Plug (2 Channel) | 3.5mm | | | | View |
| ASP-3.5-S3-24.2 | Plug (3 Channel) | 3.5mm | | | | View |

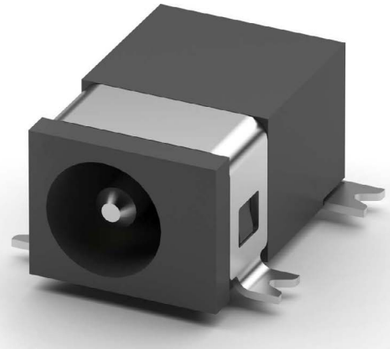
# DC Power Jacks & Plugs

Adam Tech's ADC Series is a complete line of miniature and sub-miniature jacks and plugs primarily used for the transmission of wall current transformed to DC power for detached and hand-held instruments. These DC power jacks and plugs are manufactured with a variety of center pin sizes for all standard applications, including 1.00mm, 1.30mm, 2.00mm and 2.50mm. Our contact is designed using a wide spring grade plated copper alloy for exceptional plug retention and low contact resistance.









## FEATURES & SPECIFICATIONS

### FEATURES:
Low Profile designs
Superior contact system
Exceptional plug retention
Choice of Center pin sizes
Hi Temp Versions
Hi Current Versions

### MATING PLUGS:
All industry standard 1.00mm, 1.30mm, 2.00mm, 2.35mm and 2.50mm Plugs.

### PACKAGING:
Anti-ESD plastic bags or Tape and Reel

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Standard insulator: PBT Glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Center Pin: Brass, Nickel plated
Contacts: Copper alloy

### Contact Plating:
Silver over nickel underplate

### Electrical:
Operating voltage: 12V DC max.
Current rating: 1 Amp max.
Contact resistance: 30 mΩ max. initial
Insulation resistance: 50 MΩ min.
Dielectric withstanding voltage: 250V AC for 1 minute

### Mechanical:
Insertion force: 3 kg max.
Withdrawal force: 0.3 kg min
Mating durability: 5000 cycles min.

### Temperature Rating:
Operating temperature: -25°C to +85°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

## JACK PART NUMBER CONFIGURATION

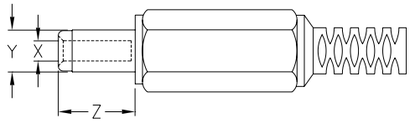
**ADC - 002 - 1 - RT**

| SERIES | BODY STYLE | CENTER PIN DIAMETER | OPTIONS: |
|---|---|---|---|
| **ADC** = *DC Power Jack*<br>**ADC-H** = *DC Power Jack Hi-Current 5 Amp Version* | **001** *thru* **138** | **1** = *2.00mm*<br>**2** = *2.50mm*<br>**3** = *1.00mm*<br>**4** = *1.30mm*<br>**5** = *2.35mm*<br>**8** = *0.7mm*<br>**9** = *1.65mm* | **RT** = *PC Board Retention Feature (Type 007 & 009 only)*<br>**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C*<br>**N** = *Notch option, (ADC-002 only)*<br>**T/R** = *Tape and Reel Packaging* |

## PLUG PART NUMBER CONFIGURATION

**ADP - X/Y/Z - SR**

| SERIES | SIZE | OPTIONS: |
|---|---|---|
| **ADP** = *DC Power Plug* | **X** = *I. D. /*<br>**Y** = *O. D. /*<br>**Z** = *Length* | **SR** = *Strain Relief*<br>**M** = *Molding Type* |





ADC-H-002-X-HT



ADP-.051/.138/.374-SR

## DC Power Jacks

| PART NUMBER | GENDER | CENTER PIN SIZE | MOUNTING ORIENTATION | OPTIONS | STYLE | PRODUCT DATA |
|---|---|---|---|---|---|---|
| ADC-002-X | Receptacle | Multiple Pin Size Options | Right Angle Thru Hole | | | View |
| ADC-021-X-TR | Receptacle | Multiple Pin Size Options | Right Angle Surface Mount | Hi Temp Insulator | | View |
| ADC-027-X-M8 | Receptacle | Multiple Pin Size Options | Vertical Thru Hole | | Panel Mount | View |
| ADC-028-1-T/R-PA10T | Receptacle | 2.00mm | Right Angle Surface Mount | | | View |
| ADC-029S-X-HT-T/R | Receptacle | Multiple Pin Size Options | Right Angle Thru Hole | Hi Temp Insulator | | View |
| ADC-033-X | Receptacle | Multiple Pin Size Options | Right Angle Thru Hole | | | View |
| ADC-037-X-TR | Receptacle | Multiple Pin Size Options | Right Angle Surface Mount | Hi Temp Insulator | | View |
| ADC-039-6 | Receptacle | 1.45mm | Right Angle Thru Hole | | | View |
| ADC-055B-9 | Receptacle | 1.65mm | Right Angle Thru Hole | | | View |
| ADC-070A-X-G-SMT-PPT-TR | Receptacle | Multiple Pin Size Options | Vertical Surface Mount | Pick and Place Tape | | View |
| ADC-096-X-TR | Receptacle | Multiple Pin Size Options | Right Angle Thru Hole | Hi Temp Insulator | | View |
| ADC-098-8 | Receptacle | 0.65mm | Right Angle Surface Mount | | | View |
| ADC-102-X-TR | Receptacle | Multiple Pin Size Options | Right Angle Surface Mount | Hi Temp Insulator | | View |
| ADC-H-002-X | Receptacle | Multiple Pin Size Options | Right Angle Thru Hole | Hi Current (5 Amps) | | View |
| ADC-H-002-X-HT | Receptacle | Multiple Pin Size Options | Right Angle Thru Hole | Hi Current (5 Amps) | | View |
| ADC-H-002A-X-RT | Receptacle | Multiple Pin Size Options | Right Angle Thru Hole | Hi Current (5 Amps) | | View |
| ADC-H-002B-X-N | Receptacle | Multiple Pin Size Options | Right Angle Thru Hole | Hi Current (5 Amps) | | View |
| ADC-H-002G-X | Receptacle | Multiple Pin Size Options | Right Angle Thru Hole | Hi Current (5 Amps) | | View |
| ADC-H-002G-X-N | Receptacle | Multiple Pin Size Options | Right Angle Thru Hole | Hi Current (5 Amps) | | View |
| ADC-H-010-X | Receptacle | Multiple Pin Size Options | Vertical Thru Hole | Hi Current (5 Amps) | | View |
| ADC-H-026-X | Receptacle | Multiple Pin Size Options | Right Angle Thru Hole | Hi Current (5 Amps) | | View |
| ADC-H-042-X-SMT | Receptacle | Multiple Pin Size Options | Vertical Surface Mount | Hi Current (5 Amps) | | View |
| ADC-H-085-X-HT-TR | Receptacle | Multiple Pin Size Options | Vertical Thru Hole | Hi Current (5 Amps) | | View |
| ADC-H-123-X | Receptacle | Multiple Pin Size Options | Vertical Thru Hole | Hi Current (5 Amps) | | View |

## DC Power Plugs

| PART NUMBER | GENDER | CENTER PIN SIZE | OPTIONS | PRODUCT DATA |
|---|---|---|---|---|
| ADP-.039/.150/.374-SR | Plug | .039" [1.0mm] | Strain Relief | View |
| ADP-.051/.138/.374-SR | Plug | .051" [1.3mm] | Strain Relief | View |
| ADP-.067/.187/.374-SR | Plug | .067" [1.7mm] | Strain Relief | View |
| ADP-.083/.217/.433-HDW-SR | Plug | .083" [2.1mm] | Strain Relief | View |
| ADP-098-217-689-M | Plug | .098" [2.5mm] | Moulding Type | View |
| ADP-.067/.187/.374 | Plug | .067" [1.7mm] | | View |
| ADP-.098-.217-.374-SR | Plug | .098" [2.5mm] | Strain Relief | View |
| ADP-2.1-5.5-9.5-SR | Plug | .083" [2.1mm] | Strain Relief | View |

# Waterproof Audio & DC Power Jacks

Adam Tech's Waterproof Audio & DC Charging Connectors are a combination of IP67 and Splash Proof sealed designs intended for use in applications exposed to moisture, humidity and rain. Special seals, o-rings, and epoxy coatings are incorporated into this product line to achieve the listed ratings.  Adam Tech offers full customization capabilities to waterproof body styles not seen in this catalog. Reach out to us today with your requirement and our team of design engineers will work hand in hand with you to create the solution you need.



**Board Mount Waterproof Audio**



**Bulkhead Waterproof DC Power**



**Board Mount Waterproof DC Power**

## FEATURES & SPECIFICATIONS

**PACKAGING:**
Anti-ESD plastic trays or tubes

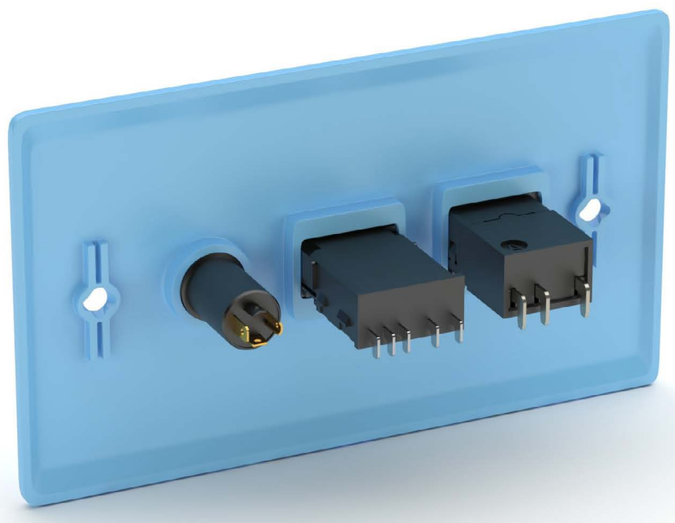
**APPROVALS AND CERTIFICATIONS:**
UL Recognized File no. E224053

**SPECIFICATIONS:**

**Material:**
Standard insulator: PA66
Optional Hi-Temp insulator: Hi-Temp thermoplastic rated UL 94-V0
Insulator Color: Black
Contacts: Copper Alloy
Shell: Brass, Nickel Plated
Contact Plating: Gold Flash over nickel underplate overall

| PART NUMBER | TYPE | WATERPROOF | PRODUCT DATA |
|---|---|---|---|
| ADC-114B-4-WP-HT-T/R | DC Power | Yes | View |
| ADC-119-4-WP | DC Power | Yes | View |
| ASJ-171B-M-WP | Audio | Yes | View |
| ASJ-181-1A-HDW-WP | Audio | Yes | View |
| ASJ-182-1A-HDW-WP | Audio | Yes | View |
| ASJ-203C-M-WP | Audio | Yes | View |





# Circular Industrial Connectors - Waterproof, Ruggedized & High Current

Adam Tech's Circular Industrial Connector series is comprised of waterproof, ruggedized, and high current connectors. These connectors are offered in mated sets of various styles, including Circular, M style, RJ45, and USB The mated sets provide waterproof protection, with IP ratings ranging from IP66 to IP68. With a variety of pin count and keying style options, these parts are ideal for many applications.



## FEATURES & SPECIFICATIONS

### FEATURES
Panel Mount, Overmold w/ Cable, Field Assembly Types
Complete Pin Count Selection
IP Sealing Options include IP66, IP67, IP68
Straight and Right Angle
Screw Locking Mechanisms

### MATING CONNECTORS:

### PACKAGING:
Anti-ESD plastic trays or tubes

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Standard insulator: PBT
Optional Hi-Temp insulator: PA6T
Insulator Color: Black
Contacts: Brass
Shell: Zinc Allow or Brass
Contact Plating: Nickel or Gold plated over Nickel underplate

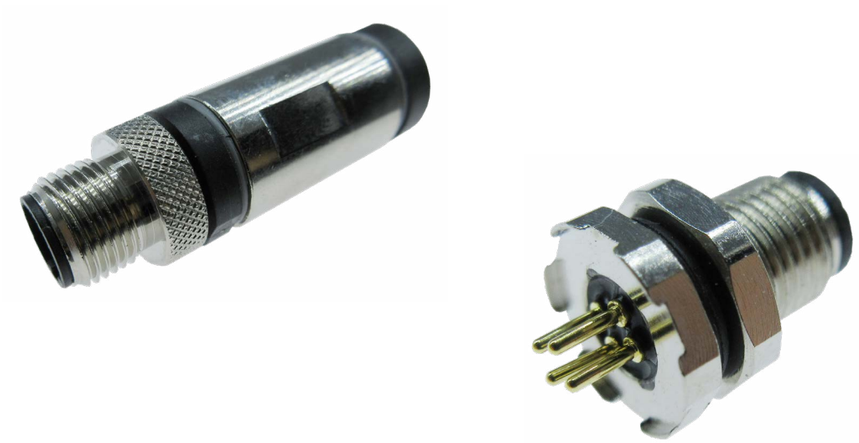
### Electrical:
Operating Voltage: 250V
Current Rating: Up to 20A
Contact Resistance: 30 mohms max.
Insulation Resistance: 100 Mohms min.
Dielectric Withstanding Voltage: 500V AC for 1 Minute

### Temperature Ratings:
Operating Temperature: -25°C to +85°C

## CASE STUDY




Medical devices, such as pulse oximeters, rely on the sealed connections of Circular Industrial Connectors. The multi-pin design is ideal for the reliability and security required in the medical industry.



# Circular Industrial Connectors - Waterproof, Ruggedized & High Current

## WATERPROOF M8 & M12 STYLES

Adam Tech M8 & M12 Connector Systems and Assemblies are rugged, high durability, IP rated solutions for the most demanding aplications. They are offered in a the M8 and M12 sizes with varying levels of waterproof ratings from IP67 to IP69. Available as board connectors and also cable assemblies, this series is a popular choice for the most challenging environments and requirements.

| PART NUMBER | TYPE | GENDER / MOUNTING TYPE | FOR A, B, C, & D STYLES | WATERPROOF RATING | PRODUCT DATA |
|---|---|---|---|---|---|
| SD-M12F-CAP1 | M12 | Male, Cap | N/A | IP67 | View |
| SD-M12M-CAP1 | M12 | Female, Cap | N/A | IP67 | View |
| SD-M8F-CAP1 | M8 | Male, Cap | N/A | IP67 | View |
| SD-MMA12-MMTPH-SX0-001 | M12 | Male, Panel Mount, Solder Cup | A Coded | IP67 | View |
| SD-MMAXX-FFTDL-SX0-000 | M12 | Male, Panel Mount, Straight PCB | A Coded | IP67 | View |
| SD-MMAXX-FFTDL-SX0-002 | M12 | Female, Field Assembly Cable Mount | A Coded | IP67 | View |
| SD-MMAXX-MMTPH-SX0-003 | M12 | Female, Panel Mount, Solder Cup | A Coded | IP67 | View |
| SD-MMAXXX-MMTDL-SX0-000 | M12 | Male, Field Assembly Cable Mount | A Coded | IP67 | View |
| SD-MMAXXX-MMTPH-PX0-000 | M12 | Female, Panel Mount, Solder Cup | A Coded | IP67 | View |
| SD-MMAXXX-MMTPH-SX0-000 | M12 | Male, Panel Mount, Solder Cup | A Coded | IP67 | View |
| SD-MMD04-FFTPH-PX0-000 | M12 | Female, Panel Mount, Straight PCB | D Coded | IP67 | View |
| SD-MMEXX-FFTPH-SX0-000 | M8 | Female, Panel Mount, Solder Cup | A Coded | IP67 | View |
| SD-MMEXX-MMTPH-PX0-000 | M8 | Male, Panel Mount, Solder Cup | A Coded | IP67 | View |
| SD-MMEXXX-FFTRH-SX0-000 | M8 | Female, Panel Mount, Solder Cup | A Coded | IP67 | View |
| SD-MMEXXX-MMTPH-S70-000 | M8 | Male, Panel Mount, Solder Cup | A Coded | IP67 | View |
| SD-MMEXXX-MMTPH-SX0-000 | M8 | Male, Panel Mount, Solder Cup | A Coded | IP67 | View |
| SD-MMX08-FFTPH-PX0-001 | M12 | Female, Panel Mount, Straight PCB | X Coded | IP67 | View |
| SD-MMX08-MMTDL-IX0-000 | M12 | Male, Field Assembly Cable Mount, IDC | X Coded | IP67 | View |
| SD-MMXXX-FFTDL-SX0-013 | M12 | Female, Field Assembly Cable Mount | A or D Coded | IP67 | View |
| SD-MMXXX-FFTPH-SX0-013 | M12 | Female, Panel Mount, Solder Cup | A or D Coded | IP67 | View |
| SD-MMXXX-MMTDL-SX0-013 | M12 | Male, Cable Mount, Solder Cup | A or D Coded | IP67 | View |
| SD-MMXXX-MMTPH-SX0-013 | M12 | Male, Panel Mount, Solder Cup | A or D Coded | IP67 | View |
| SD-MMXXX-MMTRH-SX0-013X | M12 | Male, Panel Mount, Solder Cup | A or D Coded | IP67 | View |
| SD-PMA02-FFTS | M12 | Female, Cable Mount | A Coded | IP67 | View |
| SD-PMA02A-FFTS | M12 | Female, Cable Mount | A Coded | IP67 | View |
| SD-PMA03A-FFTS3 | M12 | Female, Cable Mount | A Coded | IP67 | View |
| SD-PMA04-FFTS4 | M12 | Female, Cable Mount | A Coded | IP67 | View |
| SD-PMA05-FFTS5 | M12 | Female, Cable Mount | A Coded | IP67 | View |
| SD-PMA05-MMTRH-SX0-000 | M12 | Male, Panel Mount, Solder Cup | A Coded | IP67 | View |
| SD-PMA05B-FFTBL-C7A-16 | M12 | Female, Straight, Overmolded on Cable Assembly | A Coded | IP67 | View |
| SD-PMA05B-FFTBL-C7A-16_5FT | M12 | Female, Straight, Overmolded on Cable Assembly | A Coded | IP67 | View |
| SD-PMA08-MMTPH-RX0-000 | M12 | Male, Panel Mount, Right Angle, PCB | A Coded | IP67 | View |
| SD-PMAXX-FFTBL-CXX-XFT | M12 | Female, Straight, Overmolded on Cable Assembly | A Coded | IP67 or IP68 | View |
| SD-PMAXX-FFTDL-SX0-001 | M12 | Female, Field Assembly Cable Mount | A Coded | IP67 | View |



| PART NUMBER | TYPE | GENDER / MOUNTING TYPE | FOR A, B, C, & D STYLES | WATERPROOF RATING | PRODUCT DATA |
|---|---|---|---|---|---|
| SD-PMAXX-FFTPH-RX0-000 | M12 | Female, Panel Mount, Right Angle, PCB | A Coded | IP67 | View |
| SD-PMAXX-MMTDL-SX0-001 | M12 | Male, Field Assembly Cable Mount | A Coded | IP67 | View |
| SD-PMAXX-MMTPH-RX0-000 | M12 | Male, Panel Mount, Right Angle PCB | A Coded | IP67 | View |
| SD-PMAXXX-FFTBR-CXX-XFT | M12 | Female, Right Angle, Overmolded on Cable Assembly | A Coded | IP67 | View |
| SD-PMAXXX-MMTBL-CXX-XFT | M12 | Male, Straight, Overmolded on Cable Assembly | A Coded | IP67 | View |
| SD-PMAXXX-MMTBL-CXX-XXXM | M12 | Male, Straight, Overmolded on Cable Assembly | A Coded | IP67 | View |
| SD-PMAXXX-MMTBR-CXX-XFT | M12 | Male, Right Angle, Overmolded on Cable Assembly | A Coded | IP67 | View |
| SD-PMB05-FFTRH-PX0-000 | M12 | Female, Panel Mount, Straight, Solder Cup | B Coded | IP67 | View |
| SD-PMDXX-FFTDL-SX0-000 | M12 | Female, Field Assembly Cable Mount | D Coded | IP67 | View |
| SD-PMDXX-MMTDL-SX0-000 | M12 | Male, Field Assembly Cable Mount | D Coded | IP67 | View |
| SD-PMEXX-FFTDL-SX0-001 | M8 | Female, Field Assembly Cable Mount | A Coded | IP67 | View |
| SD-PMEXX-FFTPH-RX0-000 | M8 | Female, Panel Mount, Right Angle PCB | A Coded | IP67 | View |
| SD-PMEXX-MMTPH-PX0-001 | M8 | Male, Panel Mount, Straight, PCB | A Coded | IP67 | View |
| SD-PMEXX-MMTPH-RX0-000 | M8 | Male, Panel Mount, Right Angle PCB | A Coded | IP67 | View |
| SD-PMEXXX-FFTBL-CXX-XFT | M8 | Female, Straight, Overmolded on Cable Assembly | A Coded | IP67 | View |
| SD-PMEXXX-FFTBL-CXX-XXXM | M8 | Female, Straight, Overmolded on Cable Assembly | A Coded | IP67 | View |
| SD-PMEXXX-FFTBR-CXX-XFT | M8 | Female, Right Angle, Overmolded on Cable Assembly | A Coded | IP67 | View |
| SD-PMEXXX-MMTBL-CXX-XFT | M8 | Male, Straight, Overmolded on Cable Assembly | A Coded | IP67 | View |
| SD-PMEXXX-MMTDL-SX0-000 | M8 | Male, Field Assembly Cable Mount | A Coded | IP67 | View |
| SD-PMG04-FFTPH-RX0-000 | M5 | Female, Panel Mount, Straight, PCB | A Coded | IP67 | View |
| SD-PMG04-MMTPH-RX0-000 | M5 | Male, Panel Mount, Straight, PCB | A Coded | IP67 | View |
| SD-PMGXX-FFTBL-CXX-XFT | M5 | Female, Straight, Overmolded on Cable Assembly | A Coded | IP67 | View |
| SD-PMGXX-MMTBL-CXX-XFT | M5 | Male, Field Assembly Cable Mount | A Coded | IP67 | View |
| SD-PMX08-MMTBL-CXX-XFT | M12 | Male, Straight, Overmolded on Cable Assembly | X Coded | IP67 or IP68 | View |
| SD-PNXXX-MMTAL-S00-013 | M12 | Male, Field Assembly Cable Mount | A or D Coded | IP-67 | View |

Adam Tech's Waterproof Circular Connectors and Cable Assemblies are a wide offering of industry standard waterproof solutions. Ranging from IP67 to IP69, these ruggedized systems are designed to handle harsh environments, while providing the utmost reliability.



| PART NUMBER | GENDER / MOUNTING TYPE | WATERPROOF RATING | PRODUCT DATA |
|---|---|---|---|
| SD-BM-CAP1X | Male, Cap, B Size | N/A | View |
| SD-BM-CAP2 | Male, Dust Cover, B Size | N/A | View |
| SD-CAXX-MMBBR-CXX-XFT | Male, Right Angle, Overmolded on Cable Assembly | IP67 | View |
| SD-CAXX-MMBPH-SX0-000 | Male, Panel Mount, Solder Cup | IP67 | View |
| SD-CAXXX-FFBBL-CXX-XFT | Male, Straight, Overmolded on Cable Assembly | IP67 | View |
| SD-CBXX-MMBBL-CXX-XFT | Male, Straight, Overmolded on Cable Assembly | IP67 | View |
| SD-CBXX-MMBPH-SX0-001 | Male, Panel Mount, Solder Cup | IP67 | View |
| SD-CBXXX-FFBAL-CXX-XFT | Female, Straight, Overmolded on Cable Assembly | IP67 | View |
| SD-CBXXX-FFBAL-CXX-XXXM | Female, Straight, Overmolded on Cable Assembly | IP67 | View |
| SD-CBXXX-FFBBL-CXX-XFT | Female, Straight, Overmolded on Cable Assembly | IP67 | View |
| SD-CBXXX-FFBDL-SX0-000 | Female, Field Assembly Cable Mount | IP67 | View |
| SD-CBXXX-FFTAL-CXX-XFT | Female, Straight, Overmolded on Cable Assembly | IP67 | View |
| SD-CBXXX-FFTAL-CXX-XXXM | Female, Straight, Overmolded on Cable Assembly | IP67 | View |
| SD-CBXXX-FFTBL-CXX-XFT-X | Female, Straight, Overmolded on Cable Assembly | IP67 | View |
| SD-CBXXX-FFTDL-SX0-000 | Female, Field Assembly Cable Mount | IP67 | View |
| SD-CBXXX-MMBDL-SX0-000 | Male, Field Assembly Cable Mount | IP67 | View |
| SD-CBXXX-MMBPH-PX0-001 | Male, Panel Mount, PCB | IP67 | View |
| SD-CBXXX-MMBPH-SX0-000 | Male, Panel Mount, Solder Cup | IP67 | View |
| SD-CBXXX-MMTDL-SX0-000 | Male, Field Assembly Cable Mount | IP67 | View |
| SD-CBXXX-MMTPH-PX0-000 | Male, Panel Mount, PCB | IP67 | View |
| SD-CBXXX-MMTPH-SX0-000 | Male, Panel Mount, Solder Cup | IP67 | View |
| SD-CBXXX-MMTRH-PX0-000 | Male, Panel Mount, PCB | IP67 | View |
| SD-CBXXX-MMTRH-SX0-000 | Male, Panel Mount, Solder Cup | IP67 | View |
| SD-CCXX-MMBPH-SX0-000 | Male, Panel Mount, Solder Cup | IP67 | View |
| SD-CCXXX-FFBBL-CXX-XFT | Male, Straight, Overmolded on Cable Assembly | IP67 | View |
| SD-CCXXX-FFBDL-SX0-000 | Female, Field Assembly Cable Mount | IP67 | View |
| SD-CCXXX-MMBBL-CXX-XFT | Male, Straight, Overmolded on Cable Assembly | IP67 | View |
| SD-CCXXX-MMBDL-SX0-000 | Male, Field Assembly Cable Mount | IP67 | View |
| SD-CCXXX-MMBPH-SX0-000 | Male, Panel Mount, Solder Cup | IP67 | View |
| SD-CD35-FCBAL-CXX-XXXM | Female, Straight, Overmolded on Cable Assembly | IP67 | View |
| SD-CD35-MDBPH-PX0-000 | Male, Panel Mount, PCB | IP67 | View |
| SD-CD37-MDBPH-SX000 | Male, Panel Mount, Solder Cup | IP67 | View |
| SD-CDXX-MMBPH-SX0-000 | Male, Panel Mount, Solder Cup | IP67 | View |
| SD-CDXXX-FFBAR-CXX-XFT | Male, Right Angle, Overmolded on Cable Assembly | IP67 | View |
| SD-CDXXX-FFBDL-SX0-000 | Female, Field Assembly Cable Mount | IP67 | View |
| SD-CM-CAP1 | Male, Cap, RJ45 | N/A | View |

## PART NUMBER CONFIGURATION

| SD - | CA03A - | MMBPH - | S70-000 |
|---|---|---|---|
| **SERIES** | **SERIES, SIZE, STYLE, POSITIONS** | **CONNECTOR STYLE, CONTACT TYPE, MATING STYLE, S/R OR LOCK STYLE, BACK SHELL** | **ASSEMBLY STYLE, IP RATING, SERIAL NUMBER** |
| **SD** = *Waterproof* | *1st Characters for Series*<br>**C** = *Circular*<br><br>*2nd Character for Size*<br>**A** = *Mini (7/16")*<br>**B** = *Standard (5/8")*<br>**C** = *Middle (13/16")*<br>**D** = *Large (1")*<br>**E** = *Marco (1, 3/16")*<br>**F** = *(7/8")*<br>**G** = *SP13*<br><br>*3rd ~4th Character for Positions*<br>**02, 03, ..** = *Pins (Positions)*<br><br>*5th Character for Contact Ampere*<br>**A, B, ..** = *(Refer to drawing for rating mapping)* | *1st Characters for Connector Style*<br>**M** = *Male Connector*<br>**F** = *Female Connector*<br><br>*2nd Character for Contact Type*<br>**M** = *Male Contact*<br>**F** = *Female Contact*<br>**C** = *Hybrid (Different Size Male Contacts)*<br>**D** = *Hybrid (Different Size Female Contacts)*<br>**E** = *Female (Large Amp) + Male (Smaller Amp)*<br>**F** = *Male (Large Amp) + Female (Smaller Amp)*<br><br>*3rd Character for Mating Style*<br>**T** = *Thread/Screw*<br>**B** = *Bayonet/Twist Lock*<br><br>*4th Character for S/R or Lock Style*<br>**A** = *Molding Cable w/ SR*<br>**B** = *Molding Cable w/o SR*<br>**C** = *Ass'y Type w/ SR*<br>**D** = *Ass'y Type w/o SR*<br>**P** = *Panel Front Mount*<br>**R** = *Panel Rear Mount*<br>**S** = *Semi-finished product (P/N end here)*<br><br>*5th Character for Back Shell*<br>**L** = *Straight (180° Cable, Ass'y Type)*<br>**R** = *R/A (90° Cable, Ass'y Type)*<br>**C** = *Circular Panel Flange*<br>**H** = *Front Hexagonal Nut Panel* | *1st Character for Assembly Style*<br>**S** = *Solder Type*<br>**P** = *180° PCB Type*<br>**R** = *90° PCB Type*<br>**W** = *Screw in Type*<br>**C** = *Molding Type*<br>**I** = *IDC*<br>**CR** = *Crimp Type*<br><br>*2nd Character for IP Rating*<br>**N** = *No IP*<br>**6** = *IP 66*<br>**7** = *IP 67*<br>**8** = *IP 68*<br><br>*3rd Character for Cable Type*<br>**0** = *Panel or No Cable*<br>**A** = *UL2464*<br>**B** = *SJTW*<br>**C** = *UL2517*<br>**D** = *Cat5E*<br>**E** = *Cat6*<br>**G** = *Cat6A*<br><br>*4th ~6th Character for Cable Length*<br>**000** = *No Cable*<br>**1FT, 3FT, 9FT...** |

Adam Tech offers a range of weatherproof, ruggedized, IP rated RJ45 and USB connector sets in various styles. Custom designs can also be made upon request.



| PART NUMBER | TYPE | WATERPROOF RATING | GENDER / MOUNTING TYPE | PRODUCT DATA |
|---|---|---|---|---|
| SD-HDPA-JBRC-SX0-009 | HDMI | IP67 | Female, Panel Mount, Solder | View |
| SD-NPBC-JTPC-TB70-000 | Mini USB | IP67 | Male, Panel Mount, Transfer Board | View |
| SD-NPBC-JTPC-TBX0-000 | Mini USB | IP67 | Male, Panel Mount, Transfer Board | View |
| SD-NPBC-PTAL-CXX-XFT | Mini USB | IP67 | Male, Cable Mount | View |
| SD-RPC-JBPC-AX0-000 | RJ45 | IP67 | Female, Panel Mount, Straight PCB | View |
| SD-RPC-JBPC-PSX0-000 | RJ45 | IP67 | Female, Panel Mount, Straight PCB | View |
| SD-RPC-JBPC-PSX0-001 | RJ45 | IP67 | Female, Panel Mount, Straight PCB | View |
| SD-RPC-JBPC-WRX0-000 | RJ45 | IP67 | Female, Panel Mount, Right Angle PCB | View |
| SD-RPC-JBPC-WSX0-000 | RJ45 | IP67 | Female, Panel Mount, Straight PCB | View |
| SD-RPC-JTBL-CXX-XFT | RJ45 | IP67 | Female, Panel Mount, Right Angle PCB | View |
| SD-RPC-JTPC-PSX0-000 | RJ45 | IP67 | Female, Panel Mount, Straight PCB | View |
| SD-RPC-JTPC-WRX0-000 | RJ45 | IP67 | Female, Panel Mount, Right Angle Conn | View |
| SD-RPC-JTPC-WSX0-000 | RJ45 | IP67 | Female, Panel Mount, Straight Conn | View |
| SD-RPC-PBBL-CXX-XFT | RJ45 | IP67 | Male, Cable Mount | View |
| SD-RPC-PBDL-GXX-000 | RJ45 | IP67 | Male, Cable Mount | View |
| SD-RPC-PTBL-CXX-XFT | RJ45 | IP67 | Male, Cable Mount | View |
| SD-RPC-PTDL-GXX-000 | RJ45 | IP67 | Male, Cable Mount | View |
| SD-RPC-PTDL-GXX-001 | RJ45 | IP67 | Male, Cable Mount | View |
| SD-UPAC-JBPC-PSX0-000 | USB | IP67 | Female, Panel Mount, Straight PCB | View |
| SD-UPAC-JTPC-PS70-001 | USB | IP67 | Female, Panel Mount, Straight PCB | View |
| SD-UPAC-JTPC-PSX0-000 | USB | IP67 | Female, Panel Mount, Straight PCB | View |
| SD-UPAC-PBBL-CXX-XFT | USB | IP67 | Male, Cable Mount | View |

## PART NUMBER CONFIGURATION

**SD - UPAC - JBPC - J7D-1FT**

| SERIES | SERIES, STYLE, SIZE | CONNECTOR STYLE, MATING STYLE, S/R OR LOCK STYLE, BACK SHELL | ASSEMBLY STYLE, IP RATING, CATEGORY/ SHIELDING, SERIAL NUMBER |
|---|---|---|---|
| **SD** = *Waterproof* | *1st~2nd or 3rd Characters for Series*<br>**RM** = *RJ45 Metal Housing Metal Nut*<br>**RP** = *RJ45 Plastic Housing Plastic Nut*<br>**RPM** = *RJ45 Plastic Housing Metal Nut*<br>**UPA** = *USB 2.0 A-TYPE Plastic Housing Plastic Nut*<br>**U3PA** = *USB 3.0 A-TYPE Plastic Housing Plastic Nut*<br>**NPB** = *Mini USB B-TYPE Plastic Housing Plastic Nut*<br>**A2P** = *2.5mm Audio Connector Plastic Housing Plastic Nut*<br>**A3P** = *3.5mm Audio Connector Plastic Housing Plastic Nut*<br>**A4P** = *1/4 inch (6.35mm) Audio Connector Plastic Housing Plastic Nut*<br>**DE9P** = *D-sub 9 Pin Plastic hood*<br>**HDPA** = *HDMI Type-A Plastic Housing Plastic Nut*<br><br>*3rd or 4th Character for Size/Code*<br>**C** = *Middle (13/16")*<br>**S** = *Square hole panel*<br>**K** = *Key lock* | *1st Characters for Connector Style*<br>**P** = *Plug Connector*<br>**J** = *Jack Connector*<br><br>*2nd Character for Mating Style*<br>**T** = *Thread/Screw*<br>**B** = *Bayonet/Twist Lock*<br>**S** = *Snap in*<br>**U** = *Thumb Screw*<br><br>*3rd Character for S/R or Lock Style*<br>**A** = *Molding Cable w/ SR*<br>**B** = *Molding Cable w/o SR*<br>**C** = *Ass'y Type w/ SR*<br>**D** = *Ass'y Type w/o SR*<br>**E** = *W/Cable w/o SR (PCB Type)*<br>**P** = *Panel Front Mount*<br>**R** = *Panel Rear Mount*<br><br>*4th Character for Back Shell*<br>**L** = *Straight (180° Cable, Ass'y Type)*<br>**C** = *Circular Panel*<br>**M** = *Module jack* | *1st Character for Assembly Style*<br>**S** = *Solder Type or w/cable plug*<br>**C** = *Molding Type direct cut*<br>**J** = *Jack*<br>**G** = *Plug*<br>**A** = *Adapter*<br>**PS** = *Pin header Straight*<br>**PR** = *Pin header Right angle*<br>**WS** = *Wafer Straight*<br>**WR** = *Wafer Right angle*<br>**TB** = *Transfer Board*<br><br>*2nd Character for IP Rating*<br>**6** = *IP 66*<br>**7** = *IP 67*<br>**8** = *IP 68*<br><br>*3rd Character for Cable Type*<br>**0** = *Panel or No Cable*<br>**A** = *Cat5 Shield (STP)*<br>**B** = *Cat5 Un-Shield (UTP)*<br>**C** = *Cat5E Shield*<br>**D** = *Cat5E Un-Shield*<br>**E** = *Cat6 Shield*<br>**F** = *Cat6 Un-Shield*<br>**G** = *Cat6A Shield*<br>**H** = *Cat6A Un-Shield*<br>**J** = *Cat5E Fn-Shield (FTP)*<br>**L** = *USB Type A*<br>**M** = *USB Type B*<br><br>*4th ~6th Character for Cable Length*<br>**000** = *No Cable*<br>**1FT, 3FT, 9FT…** |

### MAXIMUM CHARACTERS

*Std. P/N =* **18**
*Customization P/N =* **21**

### FOR NON STANDARD OR CUSTOMIZATION

*Substituted with under after Back shell*
**ANXXXXX-X** = *Customization Case Numbers (Ex, WP-RPC-JBPC-AN10920-1)*

# Push Pull Connectors

Adam Tech's comprehensive line of Push Pull Connectors consists of metal and plastic connectors, elbow sockets, and bend reliefs. Each product type is offered in a variety of options, including positions, mounting, and size. Specialty waterproof push pull connectors are also available with ratings of IP67 and IP68. Adam Tech Push Pull Connectors are ideal for any application requiring easy, secure connections.



## FEATURES & SPECIFICATIONS

### FEATURES:
Plugs and sockets
Metal and plastic
Standard IP50 Dustproof
IP67 and IP68 waterproof
Elbow sockets
Bend reliefs
Various positions
Various collet sizes
Solder cup and PCB
Panel and cable mount
Fully intermateable with all industry leading push pull connectors

### SPECIFICATIONS:

**Material:**
Insulator: PPS
Housing: Brass, natural chrome plated or PC
Terminal: Brass, gold plated

**Electrical:**
Current rating range: 1.5 to 20A
Voltage rating: 250V
Electrical life: 1,000 cycles min.

**Temperature Rating:**
Operating temperature range: -55°C to +150°C

### APPLICATIONS:
Medical
Industrial
Instrumentation
Data and communications
Automotive
Audio/video



MMI-ES1G03PR



MMI-M0PG04S52B



MMI-P1SRG02PRGG



MMI-M0RS104S-IP68

| PART NUMBER | TYPE | GENDER / MOUNTING TYPE | WATERPROOF RATING | PRODUCT DATA |
|---|---|---|---|---|
| MMI-BR0-XX-XX-X | Bend Relief | | | View |
| MMI-BR1-XX-XX-X | Bend Relief | | | View |
| MMI-BR2-XX-XX-X | Bend Relief | | | View |
| MMI-ES1GXXPR | Elbow Socket | Female, Panel Mount | IP50 | View |
| MMI-ES1GXXPR-T | Elbow Socket | Female, Panel Mount | IP50 | View |
| MMI-M0FGXXSXX-IP67 | Metal | Female, Cable Plug | IP67 | View |
| MMI-M0FGXXSXXB-IP67 | Metal | Female, Cable Plug | IP67 | View |
| MMI-M0FSXXXS | Metal | Female, Panel Mount | IP50 | View |
| MMI-M0FXXXSXX | Metal | Female, Cable Plug | IP50 | View |
| MMI-M0FXXXSXXB | Metal | Female, Cable Plug | IP50 | View |
| MMI-M0PGXXSXX-IP67 | Metal | Male, Cable Plug | IP67 | View |
| MMI-M0PGXXSXXB-IP67 | Metal | Male, Cable Plug | IP67 | View |
| MMI-M0PRXXXSXX | Metal | Male, Cable Plug | IP50 | View |
| MMI-M0PRXXXSXXB | Metal | Male, Cable Plug | IP50 | View |
| MMI-M0PXXXSXX | Metal | Male, Cable Plug | IP50 | View |
| MMI-M0PXXXSXX-IP68 | Metal | Male, Cable Plug | IP68 | View |
| MMI-M0PXXXSXXB | Metal | Male, Cable Plug | IP50 | View |
| MMI-M0PXXXSXXB-IP68 | Metal | Male, Cable Plug | IP68 | View |
| MMI-M0RSGXXS-IP67 | Metal | Female, Panel Mount | IP67 | View |
| MMI-M0RSXXXP | Metal | Female, Panel Mount | IP50 | View |
| MMI-M0RSXXXP-IP68 | Metal | Female, Panel Mount | IP68 | View |

# Push Pull Connectors

| PART NUMBER | TYPE | GENDER / MOUNTING TYPE | WATERPROOF RATING | PRODUCT DATA |
|---|---|---|---|---|
| MMI-M0RSXXXPR | Metal | Female, Panel Mount | IP50 | View |
| MMI-M0RSXXXS | Metal | Female, Panel Mount | IP50 | View |
| MMI-M0RSXXXS-IP68 | Metal | Female, Panel Mount | IP68 | View |
| MMI-M1FGXXSXX-IP67 | Metal | Female, Cable Plug | IP67 | View |
| MMI-M1FGXXSXXB-IP67 | Metal | Female, Cable Plug | IP67 | View |
| MMI-M1FSXXXS | Metal | Female, Panel Mount | IP50 | View |
| MMI-M1FXXXSXX | Metal | Female, Cable Plug | IP50 | View |
| MMI-M1FXXXSXXB | Metal | Female, Cable Plug | IP50 | View |
| MMI-M1PGXXSXX-IP67 | Metal | Male, Cable Plug | IP67 | View |
| MMI-M1PGXXSXXB-IP67 | Metal | Male, Cable Plug | IP67 | View |
| MMI-M1PRXXXSXX | Metal | Male, Cable Plug | IP50 | View |
| MMI-M1PRXXXSXXB | Metal | Male, Cable Plug | IP50 | View |
| MMI-M1PXXXSXX | Metal | Male, Cable Plug | IP50 | View |
| MMI-M1PXXXSXX-IP68 | Metal | Male, Cable Plug | IP68 | View |
| MMI-M1PXXXSXXB | Metal | Male, Cable Plug | IP50 | View |
| MMI-M1PXXXSXXB-IP68 | Metal | Male, Cable Plug | IP68 | View |
| MMI-M1RSGXXS-IP67 | Metal | Female, Panel Mount | IP67 | View |
| MMI-M1RSXXXP | Metal | Female, Panel Mount | IP50 | View |
| MMI-M1RSXXXP-IP68 | Metal | Female, Panel Mount | IP68 | View |
| MMI-M1RSXXXPR | Metal | Female, Panel Mount | IP50 | View |
| MMI-M1RSXXXS | Metal | Female, Panel Mount | IP50 | View |
| MMI-P0M-COL-XX | Collet | | IP50 | View |
| MMI-P0M-COL-XX-IP6X | Collet | | IP67 or IP68 | View |
| MMI-P1FGXXSXXXB | Plastic | Female, Cable Plug | IP50 | View |
| MMI-P1FGXXSXXXX | Plastic | Female, Cable Plug | IP50 | View |
| MMI-P1M-COL-XX | Collet | | IP50 | View |
| MMI-P1M-COL-XX-IP6X | Collet | | IP67 or IP68 | View |
| MMI-P1P-BN-X | Nut | | | View |
| MMI-P1P-COL-XX | Collet | | | View |
| MMI-P1PXXXSXXXB | Plastic | Male, Cable Plug | IP50 | View |
| MMI-P1PXXXSXXXX | Plastic | Male, Cable Plug | IP50 | View |
| MMI-P1S-FN-X | Nut | | | View |
| MMI-P1SRXXXPRXX | Plastic | Female, Panel Mount | IP50 | View |
| MMI-P1SRXXXPXX | Plastic | Female, Panel Mount | IP50 | View |
| MMI-P1SRXXXSXX | Plastic | Female, Panel Mount | IP50 | View |



MMI-ES1G08PR-T



MMI-M0FSG04S



MMI-M0RSG04P



MMI-M0RSG06S-IP67



MMI-M1FG10S52B-IP67



MMI-M0PRG03S52



MMI-M1RSG06PR



MMI-P1SRG05PGG

# Automotive Connectors

Automotive Connectors manufactured in our IATF 16949 certified facility are state of the art solutions to connect a variety of Automotive applications. This specialized series of Automotive board headers and pin strips achieve suitability for a wide range of applications. Our success with automotive connectors and cables is heavily "Custom Solution Based." The bulk of Adam Tech's Automotive expertise is centered around developing custom Automotive solutions not available elsewhere on the market. Many of our customers will submit to us a sketch of a specialized auto connector that requires design and tooling. Our team of engineers will develop a custom design tailored specifically to your application. For more details, submit a "Custom Solution" request through our Website Inquiry Form.



## FEATURES & SPECIFICATIONS

### PACKAGING:
Anti-ESD plastic trays or tubes

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

#### Material:
Standard insulator: PA66, PA6T or PA9T
Optional Hi-Temp insulator: PA6T or PA9T
Insulator Color: Black
Contacts: Brass
Contact Plating: Tin or Gold over Nickel underplate

#### Electrical:
Operating Voltage: 250V
Current Rating: Up to 7 Amps
Contact Resistance: 20 mohms max.
Insulation Resistance: 1,000 Mohms min.
Dielectric Withstanding Voltage: 500V AC

#### Mechanical:

#### Temperature Ratings:
Operating Temperature: -40°C to +125°C
Soldering process temperature:
Standard insulator: PA66
Hi-Temp insulator: PA6T or PA9T

| PART NUMBER | TYPE | PIN COUNT | CENTERLINE | PRODUCT DATA |
|---|---|---|---|---|
| ADT-AMMC3336A850PPCT006 | Board Header | 23 | 4.00mm | View |
| ADT-AMMC3722PPCT001 | Board Header | | 4.20mm | View |
| ADT-AMMC3903MACT002 | Board Header | 31 | 4.00mm | View |
| ADT-AMP1151106S3BR149E2 | Board Header | 6 | 2.54mm | View |
| ADT-AMP1251104S2BS192A1 | Board Header | 4 | 2.54mm | View |
| ADT-AMP1251106S4BS165A1 | Board Header | 6 | 2.54mm | View |
| ADT-AMP1831104S4CR228B1 | Board Header | 4 | 2.54mm | View |
| ADT-AMPE441212S3ES170E1 | Board Header | 24 | 4.20mm | View |
| ADT-AMYX7762311 | Board Header | 35 | 1.35mm | View |



# RF Cable Assemblies

Adam Tech RF Assemblies consist of a wide range of industry styles and types including IPEX, SMA, MCX, and BNC and available in numerous lengths which may also be customized to your requirements. RF cables are highly customizable and can be tailored to suit your application requirements.



## FEATURES & SPECIFICATIONS

### FEATURES:
Bodies available with gold or nickel plating
Insulators available in Teflon, Delrin, and Polypropylene
Standard availability of 50 or 75 ohms impedance
Through hole and SMT types for printed circuit board versions
Male and female types available in bulkhead and cable mount versions

### MATING CONNECTORS:
Adam Tech RF series connectors and all industry Standard RF connectors

### PACKAGING:
Anti-ESD plastic trays or bags

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Housing: Brass, Nickel plated
Zinc diecast, Nickel plated
Standard Insulators: Delrin, Polypropylene or Teflon
Optional Hi-Temp Insulator: Teflon
Contacts: Beryllium copper, Gold plated

### Electrical:
Operating voltage: 150V AC max.
Contact resistance: 5 mΩ max. initial
Impedance: 50 or 75 ohms
Insulation resistance: 5000 M min.
Dielectric withstanding voltage: 1000V AC for 1 minute
VSWR: 1.2 max
Frequency range: 0 – 6 GHZ

### Mechanical:
Engagement force: 4.5 lbs max
Disengagement force: 2 lbs min
Cable retention: equal to breaking strength of cable employed
Durability: 500 cycles

### Temperature Rating:
Operating temperature: -20°C to +85°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

| PART NUMBER | TYPE | LENGTH | CABLE | PRODUCT DATA |
|---|---|---|---|---|
| CA-BNC-P-P-01-1000L | BNC to BNC | 39 inches | RG-58 Cable | View |
| CA-BNC-P-P-01-1082L | BNC to BNC | 42 inches | RG-58 Cable | View |
| CA-BNC-P-P-01-1800L | BNC to BNC | 70 inches | RG-58 Cable | View |
| CA-BNC-P-P-01-2082L | BNC to BNC | 81 inches | RG-58 Cable | View |
| CA-BNC-P-P-01-282L | BNC to BNC | 11 inches | RG-58 Cable | View |
| CA-BNC-P-P-01-305L | BNC to BNC | 12 inches | RG-58 Cable | View |
| CA-BNC-P-P-01-3082L | BNC to BNC | 121 inches | RG-58 Cable | View |
| CA-BNC-P-P-01-582L | BNC to BNC | 22 inches | RG-58 Cable | View |
| CA-BNC-P-P-01-915L | BNC to BNC | 36 inches | RG-58 Cable | View |
| CA-BNC-P-P-01-XXXL | BNC to BNC | | RG-58 Cable | View |
| CA-BNC-P-P-02-1000L | BNC to BNC | 39 inches | RG-174 Cable | View |
| CA-BNC-P-P-02-1200L | BNC to BNC | 47 inches | RG-174 Cable | View |
| CA-BNC-P-P-02-1500L | BNC to BNC | 59 inches | RG-174 Cable | View |
| CA-BNC-P-P-02-2000L | BNC to BNC | 78 inches | RG-174 Cable | View |
| CA-BNC-P-P-02-2800L | BNC to BNC | 110 inches | RG-174 Cable | View |
| CA-BNC-P-P-02-500L | BNC to BNC | 19 inches | RG-174 Cable | View |
| CA-BNC-P-P-02-600L | BNC to BNC | 23 inches | RG-174 Cable | View |

| PART NUMBER | TYPE | LENGTH | CABLE | PRODUCT DATA |
|---|---|---|---|---|
| CA-DKCA0-152L0-AJI0-0 | SMA to IPEX | 6 inches | 1.13mm Diameter | View |
| CA-DKCA0-152L1-ALI0-0 | SMA to IPEX | 6 inches | 1.37mm Cable | View |
| CA-DKCA0-305L0-AJI0-0 | SMA to IPEX | 12 inches | 1.13mm Diameter | View |
| CA-DKCA0-305L1-ALI0-0 | SMA to IPEX | 12 inches | 1.37mm Cable | View |
| CA-DKCA1-100L1-I0I0 | IPEX to IPEX | 4 inches | 1.37mm Cable | View |
| CA-DKCA1-100LQ-I0I0 | IPEX to IPEX | 4 inches | 0.81mm Cable | View |
| CA-DKCA1-152L0-AJI0 | SMA to IPEX | 6 inches | 1.13mm Diameter | View |
| CA-DKCA1-152L0-AJI5 | SMA to IPEX | 6 inches | 1.13mm Diameter | View |
| CA-DKCA1-152L0-I0-12 | IPEX to Stripped End | 12 inches | 1.13mm Diameter | View |
| CA-DKCA1-152L0-I0-6 | IPEX to Stripped End | 6 inches | 1.13mm Diameter | View |
| CA-DKCA1-152L1-ALI0 | SMA to IPEX | 6 inches | 1.37mm Cable | View |
| CA-DKCA1-152L3-DPDRP-12 | MCX to MCX | 12 inches | RG-178 Cable | View |
| CA-DKCA1-152L3-DPDRP-6 | MCX to MCX | 6 inches | RG-178 Cable | View |
| CA-DKCA1-152L5-APAJ | SMA to SMA | 6 inches | RG-316 Cable | View |
| CA-DKCA1-152L5-EPR-HSBL-12 | MMCX to Stripped End | 12 inches | RG-316 Cable | View |
| CA-DKCA1-152L5-EPR-HSBL-6 | MMCX to Stripped End | 6 inches | RG-316 Cable | View |
| CA-DKCA1-152LQ-ALI5 | SMA to IPEX | 6 inches | 0.81mm Cable | View |
| CA-DKCA1-153L3-EPEP | MMCX to MMCX | 6 inches | RG-178 Cable | View |
| CA-DKCA1-153L5-EPREPR | MMCX to MMCX | 6 inches | RG-316 Cable | View |
| CA-DKCA1-200L1-I0I0 | IPEX to IPEX | 7.9 inches | 1.37mm Cable | View |
| CA-DKCA1-220LQ-I0I0 | IPEX to IPEX | 8.7 inches | 0.81mm Cable | View |
| CA-DKCA1-305L0-AJI0 | SMA to IPEX | 12 inches | 1.13mm Diameter | View |
| CA-DKCA1-305L0-AJI5 | SMA to IPEX | 6 inches | 1.13mm Diameter | View |
| CA-DKCA1-305L1-ALI0 | SMA to IPEX | 12 inches | 1.37mm Cable | View |
| CA-DKCA1-305L5-APAJ | SMA to SMA | 12 inches | RG-316 Cable | View |
| CA-DKCA1-305LQ-ALI5 | SMA to IPEX | 12 inches | 0.81mm Cable | View |
| CA-DKCA1-50LQ-I0I0 | IPEX to IPEX | 2 inches | 0.81mm Cable | View |

# Antennas

Adam Tech's RF Antennas are an optimal solution for any application transmitting or receiving electromagnetic waves. This series is headlined by WiFi, LTE, and GPS antennas, offered as either embedded or external. Designed with versatility in mind, they are available in a variety of lengths, mounting orientations, and specifications. Adam Tech is committed to providing reliable solutions to the wide world of wireless communication.



## FEATURES & SPECIFICATIONS

### FEATURES:

External and embedded antennas
5G, 4G, 3G, and 2G standards
WiFi and LTE
Navigation systems, such as GPS and Galileo
Enable high speed wireless communication
Variety of lengths
Horizontal and vertical mounting orientations
Wide range of frequencies

### APPLICATIONS:

Routers
Navigation systems
Radars
Televisions
Radios
Mobile phones
Automobiles
Communication systems

| PART NUMBER | TYPE | PRODUCT DATA |
|---|---|---|
| ANT-190061B77 | 4G FPC Antenna | View |
| ANT-190071B77 | 4G FPC Antenna | View |
| ANT-19031EB78 | 4G External Antenna | View |
| ANT-19036EB56 | ISM External Antenna | View |
| ANT-190541B97 | 3G PCB Antenna | View |
| ANT-19073EB56 | 5G External Antenna | View |
| ANT-190751B93 | GPS Antenna | View |
| ANT-19078EB56 | 4G and GNSS Combo Antenna | View |
| ANT-200051B66 | GPS Antenna | View |
| ANT-200091B66 | 4G SMD Antenna | View |
| ANT-200421B77 | 5G FPC Antenna | View |

| PART NUMBER | TYPE | PRODUCT DATA |
|---|---|---|
| ANT-20087EB56 | GPS Antenna | View |
| ANT-20090EB56 | Wifi External Antenna | View |
| ANT-20228WB56 | 5G External Antenna | View |
| ANT-20264IB93 | GPS Antenna | View |
| ANT-20284EB56 | 4G External Antenna | View |
| ANT-20287EB56 | 4G External Antenna | View |
| ANT-20289EB56 | Wifi External Antenna | View |
| ANT-21012EB56 | 3G External Antenna | View |
| ANT-210171B77 | 3G FPC Antenna | View |
| ANT-DK-3G0EM22-I0300 | 3G Embedded Antenna | View |
| ANT-DK-DB1DI-2AB(C)- | WLAN External Antenna | View |

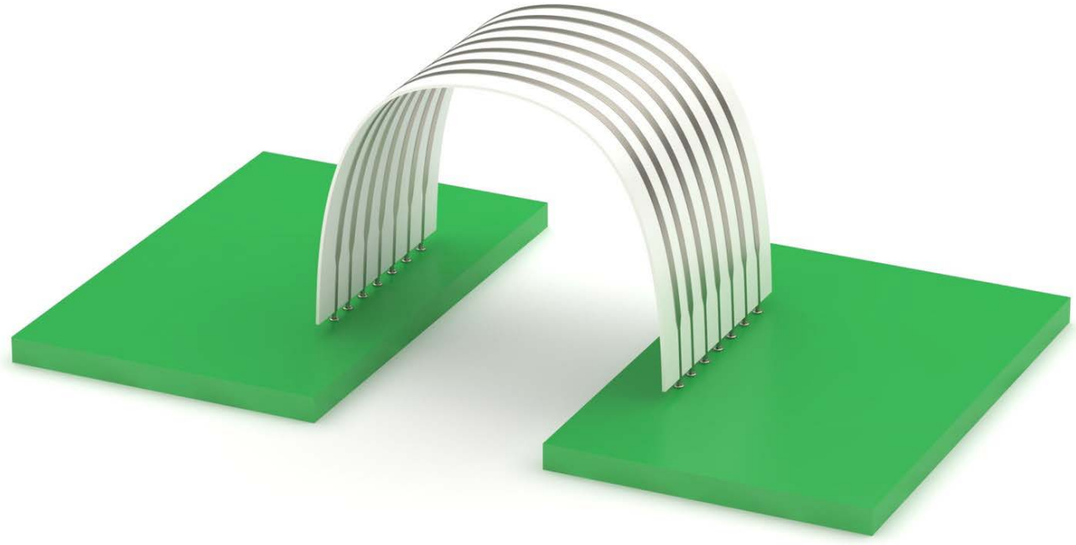
| PART NUMBER | TYPE | PRODUCT DATA |
|---|---|---|
| ANT-DK-GP1FP-GAP3M-1 | GPS Antenna | View |
| ANT-DK-LTE0EM58-I0300 | LTE Embedded Antenna | View |
| ANT-DK-LTE1DIP-2AP(P) | LTE External Antenna | View |
| ANT-DK-LTE1MD-GAPL52M | LTE External Antenna | View |
| ANT-DK-WF0EM01-I0200 | Wifi Embedded Antenna | View |
| ANT-DK-WF1DI-2AB(C)- | Wifi External Antenna | View |
| ANT-DK-WF1EM73-I085-1 | Wifi Embedded Antenna | View |
| ANT-DK-WLA1DL-5L0210I0-C | Wifi External Antenna | View |
| ANT-DK-WLA1EM60-I0150 | WLAN Embedded Antenna | View |

# Flat Flex Cables

Adam Tech Flat Flex Cables (FFC) are available in a wide variety of options including 0.50mm – 2mm centerline spacing, nearly any length or contact number required, and configurability of contacts location on same side, alternate sides, or a combination of both.

Our FFC series is fully customizable with regard to any of the features above including also the ability to specify exactly which contacts (terminals) you require for your application. Reach out to us today to get started on your design.





## FEATURES & SPECIFICATIONS

**PACKAGING:**
Anti ESD Plastic Bags

**SPECIFICATIONS:**

**Material:**
Standard insulator:  PET
Insulator Color: White Color
Support Tape: PET, Blue Color
Contacts: Tin Plater Copper
Contact Plating:

**Electrical:**
Operating Voltage: 90V UL 2743

**Temperature Rating:**
Operating Temperature:  105C

**Custom cables available upon request.**

| PART NUMBER | PITCH | POSITIONS | LENGTH | CONTACTS LOCATION | PRODUCT DATA |
|---|---|---|---|---|---|
| CA-DK05-04-101.6-A-44-88 | 0.50mm | 4 | 101.60mm | Both Same Side | View |
| CA-DK05-04-101.6-B-44-88 | 0.50mm | 4 | 101.60mm | One Top, One Bottom | View |
| CA-DK05-04-152.4-A-44-88 | 0.50mm | 4 | 152.40mm | Both Same Side | View |
| CA-DK05-04-152.4-B-44-88 | 0.50mm | 4 | 152.40mm | One Top, One Bottom | View |
| CA-DK05-04-50.8-A-44-88 | 0.50mm | 4 | 50.80mm | Both Same Side | View |
| CA-DK05-04-50.8-B-44-88 | 0.50mm | 4 | 50.80mm | One Top, One Bottom | View |
| CA-DK05-12-101.6-A-44-88 | 0.50mm | 12 | 101.60mm | Both Same Side | View |
| CA-DK05-12-101.6-B-44-88 | 0.50mm | 12 | 101.60mm | One Top, One Bottom | View |
| CA-DK05-12-152.4-A-44-88 | 0.50mm | 12 | 152.40mm | Both Same Side | View |
| CA-DK05-12-152.4-B-44-88 | 0.50mm | 12 | 152.40mm | One Top, One Bottom | View |
| CA-DK05-12-30.0-A-44-88 | 0.50mm | 12 | 30.00mm | Both Same Side | View |
| CA-DK05-12-50.8-A-44-88 | 0.50mm | 12 | 50.80mm | Both Same Side | View |
| CA-DK05-12-50.8-B-44-88 | 0.50mm | 12 | 50.80mm | One Top, One Bottom | View |
| CA-DK05-16-101.6-A-44-88 | 0.50mm | 16 | 101.60mm | Both Same Side | View |
| CA-DK05-16-101.6-B-44-88 | 0.50mm | 16 | 101.60mm | One Top, One Bottom | View |
| CA-DK05-16-152.4-A-44-88 | 0.50mm | 16 | 152.40mm | Both Same Side | View |
| CA-DK05-16-152.4-B-44-88 | 0.50mm | 16 | 152.40mm | One Top, One Bottom | View |
| CA-DK05-16-50.8-A-44-88 | 0.50mm | 16 | 50.80mm | Both Same Side | View |
| CA-DK05-16-50.8-B-44-88 | 0.50mm | 16 | 50.80mm | One Top, One Bottom | View |
| CA-DK05-24-101.6-A-44-88 | 0.50mm | 24 | 101.60mm | Both Same Side | View |
| CA-DK05-24-101.6-B-44-88 | 0.50mm | 24 | 101.60mm | One Top, One Bottom | View |
| CA-DK05-24-152.4-A-44-88 | 0.50mm | 24 | 152.40mm | Both Same Side | View |
| CA-DK05-24-152.4-B-44-88 | 0.50mm | 24 | 152.40mm | One Top, One Bottom | View |
| CA-DK05-24-50.8-A-44-88 | 0.50mm | 24 | 50.80mm | Both Same Side | View |

# Flat Flex Cable Assemblies

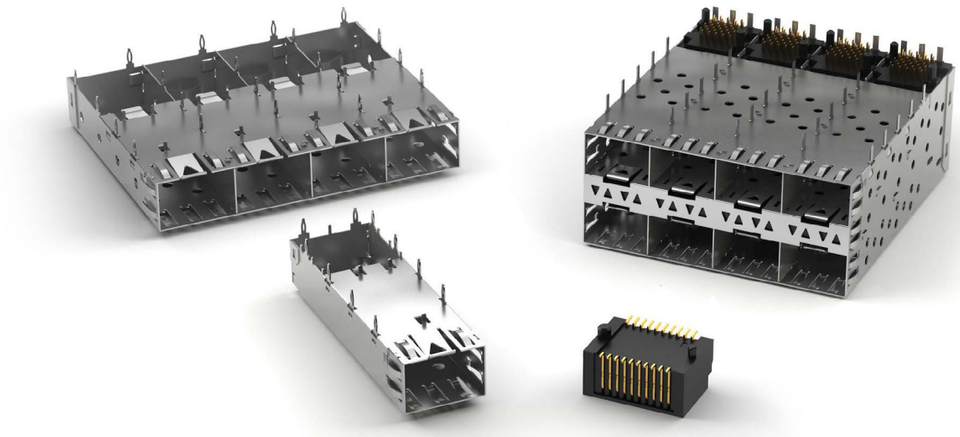
| PART NUMBER | PITCH | POSITIONS | LENGTH | CONTACTS LOCATION | PRODUCT DATA |
|---|---|---|---|---|---|
| CA-DK05-24-50.8-B-44-88 | 0.50mm | 24 | 50.80mm | One Top, One Bottom | View |
| CA-DK05-30-101.6-A-44-88 | 0.50mm | 30 | 101.60mm | Both Same Side | View |
| CA-DK05-30-101.6-B-44-88 | 0.50mm | 30 | 101.60mm | One Top, One Bottom | View |
| CA-DK05-30-152.4-A-44-88 | 0.50mm | 30 | 152.40mm | Both Same Side | View |
| CA-DK05-30-152.4-B-44-88 | 0.50mm | 30 | 152.40mm | One Top, One Bottom | View |
| CA-DK05-30-50.8-A-44-88 | 0.50mm | 30 | 50.80mm | Both Same Side | View |
| CA-DK05-30-50.8-B-44-88 | 0.50mm | 30 | 50.80mm | One Top, One Bottom | View |
| CA-DK05-36-101.6-A-44-88 | 0.50mm | 36 | 101.60mm | Both Same Side | View |
| CA-DK05-36-101.6-B-44-88 | 0.50mm | 36 | 101.60mm | One Top, One Bottom | View |
| CA-DK05-36-152.4-A-44-88 | 0.50mm | 36 | 152.40mm | Both Same Side | View |
| CA-DK05-36-152.4-B-44-88 | 0.50mm | 36 | 152.40mm | One Top, One Bottom | View |
| CA-DK05-36-50.8-A-44-88 | 0.50mm | 36 | 50.80mm | Both Same Side | View |
| CA-DK05-36-50.8-B-44-88 | 0.50mm | 36 | 50.80mm | One Top, One Bottom | View |
| CA-DK05-40-101.6-A-44-88 | 0.50mm | 40 | 101.60mm | Both Same Side | View |
| CA-DK05-40-101.6-B-44-88 | 0.50mm | 40 | 101.60mm | One Top, One Bottom | View |
| CA-DK05-40-152.4-A-44-88 | 0.50mm | 40 | 152.40mm | Both Same Side | View |
| CA-DK05-40-152.4-B-44-88 | 0.50mm | 40 | 152.40mm | One Top, One Bottom | View |
| CA-DK05-40-50.8-A-44-88 | 0.50mm | 40 | 50.80mm | Both Same Side | View |
| CA-DK05-40-50.8-B-44-88 | 0.50mm | 40 | 50.80mm | One Top, One Bottom | View |
| CA-DK05-XX-101.6-A-44-88 | 0.50mm | | 101.60mm | Both Same Side | View |
| CA-DK05-XX-101.6-B-44-88 | 0.50mm | | 101.60mm | One Top, One Bottom | View |
| CA-DK05-XX-152.4-A-44-88 | 0.50mm | | 152.40mm | Both Same Side | View |
| CA-DK05-XX-152.4-B-44-88 | 0.50mm | | 152.40mm | One Top, One Bottom | View |
| CA-DK05-XX-50.8-A-44-88 | 0.50mm | | 50.80mm | Both Same Side | View |
| CA-DK05-XX-50.8-B-44-88 | 0.50mm | | 50.80mm | One Top, One Bottom | View |
| CA-DK10-04-101.6-A-44-88 | 1.00mm | 4 | 101.60mm | Both Same Side | View |
| CA-DK10-04-101.6-B-44-88 | 1.00mm | 4 | 101.60mm | One Top, One Bottom | View |
| CA-DK10-04-152.4-A-44-88 | 1.00mm | 4 | 152.40mm | Both Same Side | View |
| CA-DK10-04-152.4-B-44-88 | 1.00mm | 4 | 152.40mm | One Top, One Bottom | View |
| CA-DK10-04-50.8-A-44-88 | 1.00mm | 4 | 50.80mm | Both Same Side | View |
| CA-DK10-04-50.8-B-44-88 | 1.00mm | 4 | 50.80mm | One Top, One Bottom | View |
| CA-DK10-05-101.6-A-44-88 | 1.00mm | 5 | 101.60mm | Both Same Side | View |
| CA-DK10-08-101.6-A-44-88 | 1.00mm | 8 | 101.60mm | Both Same Side | View |
| CA-DK10-12-101.6-A-44-88 | 1.00mm | 12 | 101.60mm | Both Same Side | View |
| CA-DK10-12-101.6-B-44-88 | 1.00mm | 12 | 101.60mm | One Top, One Bottom | View |
| CA-DK10-12-152.4-A-44-88 | 1.00mm | 12 | 152.40mm | Both Same Side | View |
| CA-DK10-12-152.4-B-44-88 | 1.00mm | 12 | 152.40mm | One Top, One Bottom | View |
| CA-DK10-12-50.8-A-44-88 | 1.00mm | 12 | 50.80mm | Both Same Side | View |
| CA-DK10-12-50.8-B-44-88 | 1.00mm | 12 | 50.80mm | One Top, One Bottom | View |
| CA-DK10-16-101.6-A-44-88 | 1.00mm | 16 | 101.60mm | Both Same Side | View |
| CA-DK10-16-101.6-B-44-88 | 1.00mm | 16 | 101.60mm | One Top, One Bottom | View |
| CA-DK10-16-152.4-A-44-88 | 1.00mm | 16 | 152.40mm | Both Same Side | View |
| CA-DK10-16-152.4-B-44-88 | 1.00mm | 16 | 152.40mm | One Top, One Bottom | View |
| CA-DK10-16-50.8-A-44-88 | 1.00mm | 16 | 50.80mm | Both Same Side | View |

| PART NUMBER | PITCH | POSITIONS | LENGTH | CONTACTS LOCATION | PRODUCT DATA |
|---|---|---|---|---|---|
| CA-DK10-16-50.8-B-44-88 | 1.00mm | 16 | 50.80mm | One Top, One Bottom | View |
| CA-DK10-24-101.6-A-44-88 | 1.00mm | 24 | 101.60mm | Both Same Side | View |
| CA-DK10-24-101.6-B-44-88 | 1.00mm | 24 | 101.60mm | One Top, One Bottom | View |
| CA-DK10-24-152.4-A-44-88 | 1.00mm | 24 | 152.40mm | Both Same Side | View |
| CA-DK10-24-152.4-B-44-88 | 1.00mm | 24 | 152.40mm | One Top, One Bottom | View |
| CA-DK10-24-50.8-A-44-88 | 1.00mm | 24 | 50.80mm | Both Same Side | View |
| CA-DK10-24-50.8-B-44-88 | 1.00mm | 24 | 50.80mm | One Top, One Bottom | View |
| CA-DK10-30-101.6-A-44-88 | 1.00mm | 30 | 101.60mm | Both Same Side | View |
| CA-DK10-30-101.6-B-44-88 | 1.00mm | 30 | 101.60mm | One Top, One Bottom | View |
| CA-DK10-30-152.4-A-44-88 | 1.00mm | 30 | 152.40mm | Both Same Side | View |
| CA-DK10-30-152.4-B-44-88 | 1.00mm | 30 | 152.40mm | One Top, One Bottom | View |
| CA-DK10-30-50.8-A-44-88 | 1.00mm | 30 | 50.80mm | Both Same Side | View |
| CA-DK10-30-50.8-B-44-88 | 1.00mm | 30 | 50.80mm | One Top, One Bottom | View |
| CA-DK10-36-101.6-A-44-88 | 1.00mm | 36 | 101.60mm | Both Same Side | View |
| CA-DK10-36-101.6-B-44-88 | 1.00mm | 36 | 101.60mm | One Top, One Bottom | View |
| CA-DK10-36-152.4-A-44-88 | 1.00mm | 36 | 152.40mm | Both Same Side | View |
| CA-DK10-36-152.4-B-44-88 | 1.00mm | 36 | 152.40mm | One Top, One Bottom | View |
| CA-DK10-36-50.8-A-44-88 | 1.00mm | 36 | 50.80mm | Both Same Side | View |
| CA-DK10-36-50.8-B-44-88 | 1.00mm | 36 | 50.80mm | One Top, One Bottom | View |
| CA-DK10-40-101.6-A-44-88 | 1.00mm | 40 | 101.60mm | Both Same Side | View |
| CA-DK10-40-101.6-B-44-88 | 1.00mm | 40 | 101.60mm | One Top, One Bottom | View |
| CA-DK10-40-152.4-A-44-88 | 1.00mm | 40 | 152.40mm | Both Same Side | View |
| CA-DK10-40-152.4-B-44-88 | 1.00mm | 40 | 152.40mm | One Top, One Bottom | View |
| CA-DK10-40-50.8-A-44-88 | 1.00mm | 40 | 50.80mm | Both Same Side | View |
| CA-DK10-40-50.8-B-44-88 | 1.00mm | 40 | 50.80mm | One Top, One Bottom | View |
| CA-DK10-XX-101.6-A-44-88 | 1.00mm | | 101.60mm | Both Same Side | View |
| CA-DK10-XX-101.6-B-44-88 | 1.00mm | | 101.60mm | One Top, One Bottom | View |
| CA-DK10-XX-152.4-A-44-88 | 1.00mm | | 152.40mm | Both Same Side | View |
| CA-DK10-XX-152.4-B-44-88 | 1.00mm | | 152.40mm | One Top, One Bottom | View |
| CA-DK10-XX-50.8-A-44-88 | 1.00mm | | 50.80mm | Both Same Side | View |
| CA-DK10-XX-50.8-B-44-88 | 1.00mm | | 50.80mm | One Top, One Bottom | View |
| CA-DK125-04-101.6-A-44-88 | 1.25mm | 4 | 101.60mm | Both Same Side | View |
| CA-DK125-04-101.6-B-44-88 | 1.25mm | 4 | 101.60mm | One Top, One Bottom | View |
| CA-DK125-04-152.4-A-44-88 | 1.25mm | 4 | 152.40mm | Both Same Side | View |
| CA-DK125-04-152.4-B-44-88 | 1.25mm | 4 | 152.40mm | One Top, One Bottom | View |
| CA-DK125-04-50.8-A-44-88 | 1.25mm | 4 | 50.80mm | Both Same Side | View |
| CA-DK125-04-50.8-B-44-88 | 1.25mm | 4 | 50.80mm | One Top, One Bottom | View |
| CA-DK125-12-101.6-A-44-88 | 1.25mm | 12 | 101.60mm | Both Same Side | View |
| CA-DK125-12-101.6-B-44-88 | 1.25mm | 12 | 101.60mm | One Top, One Bottom | View |
| CA-DK125-12-152.4-A-44-88 | 1.25mm | 12 | 152.40mm | Both Same Side | View |
| CA-DK125-12-152.4-B-44-88 | 1.25mm | 12 | 152.40mm | One Top, One Bottom | View |
| CA-DK125-12-50.8-A-44-88 | 1.25mm | 12 | 50.80mm | Both Same Side | View |
| CA-DK125-12-50.8-B-44-88 | 1.25mm | 12 | 50.80mm | One Top, One Bottom | View |
| CA-DK125-16-101.6-A-44-88 | 1.25mm | 16 | 101.60mm | Both Same Side | View |

# Flat Flex Cable Assemblies

| PART NUMBER | PITCH | POSITIONS | LENGTH | CONTACTS LOCATION | PRODUCT DATA |
|---|---|---|---|---|---|
| CA-DK125-16-101.6-B-44-88 | 1.25mm | 16 | 101.60mm | One Top, One Bottom | View |
| CA-DK125-16-152.4-A-44-88 | 1.25mm | 16 | 152.40mm | Both Same Side | View |
| CA-DK125-16-152.4-B-44-88 | 1.25mm | 16 | 152.40mm | One Top, One Bottom | View |
| CA-DK125-16-50.8-A-44-88 | 1.25mm | 16 | 50.80mm | Both Same Side | View |
| CA-DK125-16-50.8-B-44-88 | 1.25mm | 16 | 50.80mm | One Top, One Bottom | View |
| CA-DK125-24-101.6-A-44-88 | 1.25mm | 24 | 101.60mm | Both Same Side | View |
| CA-DK125-24-101.6-B-44-88 | 1.25mm | 24 | 101.60mm | One Top, One Bottom | View |
| CA-DK125-24-152.4-A-44-88 | 1.25mm | 24 | 152.40mm | Both Same Side | View |
| CA-DK125-24-152.4-B-44-88 | 1.25mm | 24 | 152.40mm | One Top, One Bottom | View |
| CA-DK125-24-50.8-A-44-88 | 1.25mm | 24 | 50.80mm | Both Same Side | View |
| CA-DK125-24-50.8-B-44-88 | 1.25mm | 24 | 50.80mm | One Top, One Bottom | View |
| CA-DK125-30-101.6-A-44-88 | 1.25mm | 30 | 101.60mm | Both Same Side | View |
| CA-DK125-30-101.6-B-44-88 | 1.25mm | 30 | 101.60mm | One Top, One Bottom | View |
| CA-DK125-30-152.4-A-44-88 | 1.25mm | 30 | 152.40mm | Both Same Side | View |
| CA-DK125-30-152.4-B-44-88 | 1.25mm | 30 | 152.40mm | One Top, One Bottom | View |
| CA-DK125-30-50.8-A-44-88 | 1.25mm | 30 | 50.80mm | Both Same Side | View |
| CA-DK125-30-50.8-B-44-88 | 1.25mm | 30 | 50.80mm | One Top, One Bottom | View |
| CA-DK125-36-101.6-A-44-88 | 1.25mm | 36 | 101.60mm | Both Same Side | View |
| CA-DK125-36-101.6-B-44-88 | 1.25mm | 36 | 101.60mm | One Top, One Bottom | View |
| CA-DK125-36-152.4-A-44-88 | 1.25mm | 36 | 152.40mm | Both Same Side | View |
| CA-DK125-36-152.4-B-44-88 | 1.25mm | 36 | 152.40mm | One Top, One Bottom | View |
| CA-DK125-36-50.8-A-44-88 | 1.25mm | 36 | 50.80mm | Both Same Side | View |
| CA-DK125-36-50.8-B-44-88 | 1.25mm | 36 | 50.80mm | One Top, One Bottom | View |
| CA-DK125-40-101.6-A-44-88 | 1.25mm | 40 | 101.60mm | Both Same Side | View |
| CA-DK125-40-101.6-B-44-88 | 1.25mm | 40 | 101.60mm | One Top, One Bottom | View |
| CA-DK125-40-152.4-A-44-88 | 1.25mm | 40 | 152.40mm | Both Same Side | View |
| CA-DK125-40-152.4-B-44-88 | 1.25mm | 40 | 152.40mm | One Top, One Bottom | View |
| CA-DK125-40-50.8-A-44-88 | 1.25mm | 40 | 50.80mm | Both Same Side | View |
| CA-DK125-40-50.8-B-44-88 | 1.25mm | 40 | 50.80mm | One Top, One Bottom | View |
| CA-DK125-XX-101.6-A-44-88 | 1.25mm | | 101.60mm | Both Same Side | View |
| CA-DK125-XX-101.6-B-44-88 | 1.25mm | | 101.60mm | One Top, One Bottom | View |
| CA-DK125-XX-152.4-A-44-88 | 1.25mm | | 152.40mm | Both Same Side | View |
| CA-DK125-XX-152.4-B-44-88 | 1.25mm | | 152.40mm | One Top, One Bottom | View |
| CA-DK125-XX-50.8-A-44-88 | 1.25mm | | 50.80mm | Both Same Side | View |
| CA-DK125-XX-50.8-B-44-88 | 1.25mm | | 50.80mm | One Top, One Bottom | View |

Adam Tech Small Form Factor Pluggable Connectors and Cages are a popular interface for telecommunications and data communications applications. Our 20 position surface mount connector interfaces to both fiber optic and copper networking modules. Our cages are manufactured in single port and multiport configurations. All of our cages are available in both press-fit and through hole mounting.



## FEATURES & SPECIFICATIONS

### FEATURES:
Industry standard compatibility
Alignment posts on SMT connector allow for PC board stability
Standoffs allow for easy board cleaning
Single, stacked or ganged cages
Cages have multiple ground points for EMI shielding

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

#### Material:
SMT Connector:
Insulator: High temperature thermoplastic
Contacts: Phosphor Bronze
Plating: Gold over nickel underplate
Cage: Nickel plated copper alloy

#### Electrical:
SMT Connector:
Operating voltage: 100VAC max
Current rating: 1 Amp max
Contact resistance: 40 ohms max
Insulation resistance: 1000 Mohms min
Dielectric withstanding voltage: 500 VAC for 1 minute

#### Temperature Rating:
Operating temperature: -40˚C to +85˚C
Soldering temperature: 260˚C for 5 seconds

## SINGLE ROW CAGE PART NUMBER CONFIGURATION

**SFC - 1 - LP**

| SERIES | NO. OF PORTS | OPTIONS |
|---|---|---|
| **SFC** = *Small Form Factor Cage* | **1** *thru* **8** | *Add designator(s) to end of part number*<br>**LP** = *External light pipe*<br>**EMI** = *Additional EMI clip*<br>**PF** = *Press-fit pins*<br>**HSK** = *Heat Sink Type* |

## STACKED ASSEMBLY PART NUMBER CONFIGURATION

**SFCJ - 8 - LP1**

| SERIES | CONFIGURATION | OPTIONS |
|---|---|---|
| **SFCJ** = *Small Form Factor Cage Assembly* | **2** = *2 X 1 Ports*<br>**4** = *2 X 2 Ports*<br>**8** = *2 X 4 Ports*<br>**12** = *2 X 6 Ports* | *Add designator(s) to end of part number*<br>**LP1** = *Inner light pipe*<br>**LP2** = *Outer light pipe*<br>**LP3** = *Inner & outer light pipes*<br>**EMI** = *Additional EMI clip*<br>**PF** = *Press-fit pins*<br>**GT** = *Front EMI Gasket*<br>**PDG** |

| PART NUMBER | TYPE | CONNECTOR + CAGE COMBO | CAGE | CONNECTOR | PRODUCT DATA |
|---|---|---|---|---|---|
| SFC-1-EMI | | | 1 Port | | View |
| SFC-1-ST | | | 1 Port | | View |
| SFC-1A-LP-PF | | | 1 Port | | View |
| SFC-2-A | | | 2 Port | | View |
| SFC-2-A-EMI | | | 2 Port | | View |
| SFC-2-CS1-PF | | | | | View |
| SFC-2-CS2-PF | | | 2 Port | | View |
| SFC-4-EMI | | | | | View |
| SFC-4-LP | | | 4 Port | | View |
| SFC-4-LP-EMI | | | 4 Port | | View |
| SFC-4-ST-EMI-GT | | | 4 Port | | View |
| SFC-6-LP-EMI | | | 6 Port | | View |
| SFCJ-1 | | 1 Port | | | View |
| SFCJ-12 | | 12 Port | | | View |
| SFCJ-4A-LPX | | 4 Port | | | View |
| SFCJ-8 | | 8 Port | | | View |
| SFF-20-SG-15 | | | | 1 Port | View |
| SFF-20-SG-30 | | | | 1 Port | View |
| SFF-20-SG-A | | | | 1 Port | View |
| SFF-20-SG-A-30 | | | | 1 Port | View |
| XFC-1-CS1-EMI | XFP | | 1 Port | | View |
| XFC-1-CS1-EMI-PF-HSK | XFP | | 1 Port | | View |
| XFC-1-CS2-EMI-PF-HSK | XFP | | 1 Port | | View |
| XFC-1-CS2A-EMI-HSK | XFP | | 1 Port | | View |
| XFC-1-CS3-EMI-HSK | XFP | | 1 Port | | View |
| XFC-1-CS4-EMI-HSK | XFP | | 1 Port | | View |
| XFC-1-CS5-EMI-HSK | XFP | | 1 Port | | View |
| XFC-1-CS6-EMI-HSK | XFP | | 1 Port | | View |
| XFC-1-CS7-EMI-HSK | XFP | | 1 Port | | View |
| XFC-1-EMI-PF-HSK-C | XFP | | 1 Port | | View |
| XFF-30-MSG-15-TR | XFP | | | 1 Port | View |
| XFF-30-MSG-30-TR | XFP | | | 1 Port | View |

## QUAD PLUGGABLE PART NUMBER CONFIGURATION

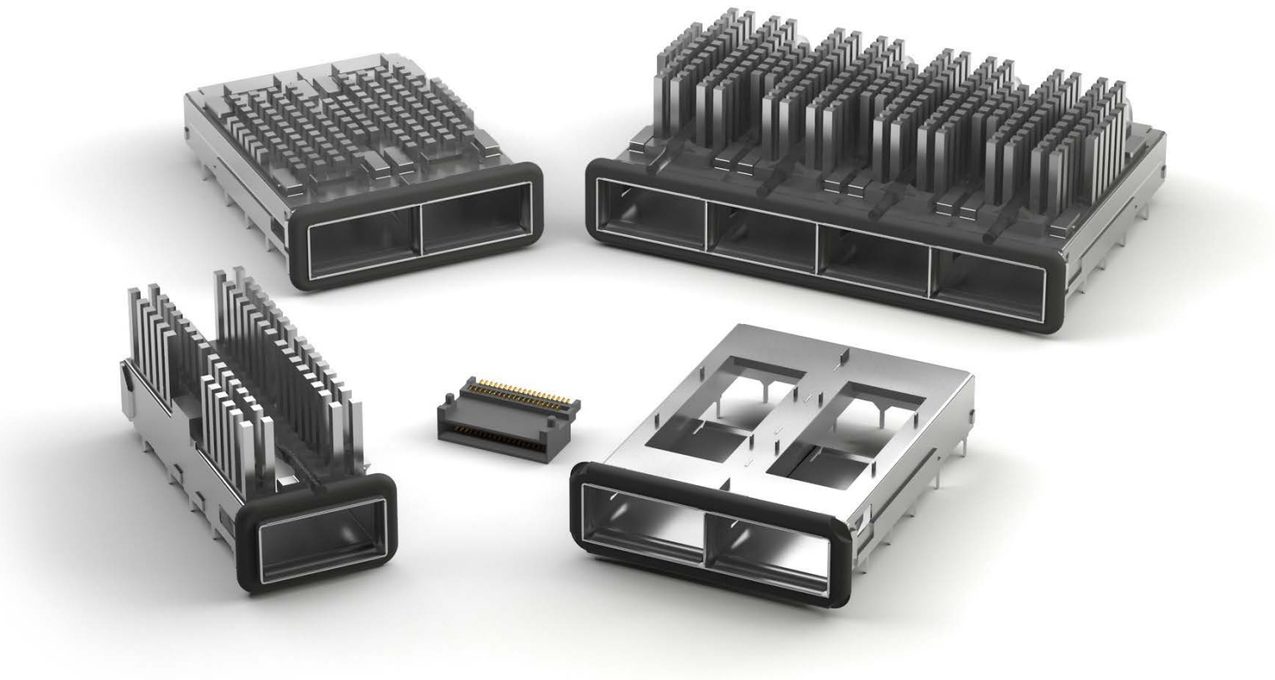
| QSFP | - | A | - | LP |
|---|---|---|---|---|

| SERIES | TYPE | OPTIONS |
|---|---|---|
| **QSFP** = *Quad Small Form-factor Pluggable* | **A** = *QSFP-1x1*<br>**B** = *QSFP28*<br>**DD** = *QSFP DD* | *Add designator(s) to end of part number*<br>**LP** = *External light pipe*<br>**EMI** = *Additional EMI clip*<br>**PF** = *Press-fit pins*<br>**HSK** = *Heat Sink Type*<br>**EG** = *Elastomer Gasket* |

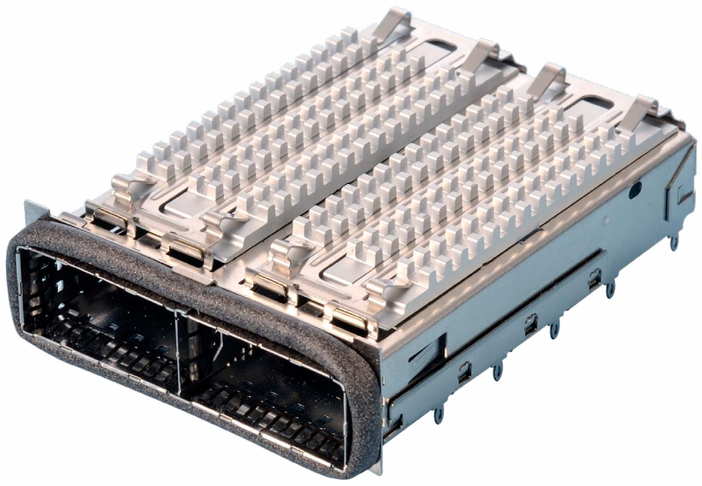
## QUAD CAGE PART NUMBER CONFIGURATION

| QSFC | - | A |
|---|---|---|

| SERIES | TYPE |
|---|---|
| **QSFC** = *Quad Small Form-factor Cage* | **A** = *QSFP+ CAGE*<br>**B** = *QSFP28 CAGE* |



| PART NUMBER | CAGE | PRODUCT DATA |
|---|---|---|
| QSFC1-EG-X | 1 Port - with EMI Gasket & Options | View |
| QSFC1-ES-X | 1 Port - with EMI Springs & Options | View |
| QSFC2-EG-X | 2 Port - with EMI Gasket & Options | View |
| QSFC4-EG-X | 4 Port - with EMI Gasket & Options | View |
| QSFC6-HS-DLP-X | 6 Port - with Heat Sink, Dual Light Pipe & Options | View |
| QSFC6-HS-LP-X | 6 Port - with Heat Sink, Single Light Pipe & Options | View |
| QSFC6-HS-NLP-X | 6 Port - with Heat Sink, No Light Pipe & Options | View |



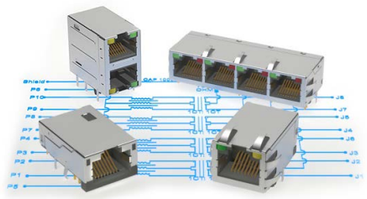
# CASE STUDY




QSFP connectors and cages can be found at the back of network devices, such as routers. They connect the router to a fiber optic channel.

# Modular Jacks, Plugs, Adapters & Couplers

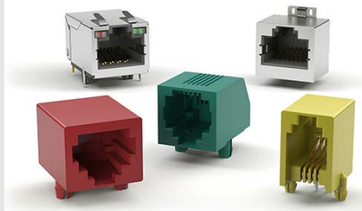
Adam Tech Modular Jacks are a complete line of PCB and wire leaded jacks which are UL and CSA approved and meet all required FCC rules and regulations. Adam Tech offers a multitude of sizes (4P2C thru 10P10C) with styles including single, ganged and stacked versions with options of ferrite or magnetic filtering and or metal shielding. Jacks with integral LED's and combination hybrids such as MTJ/USB jacks are also available. These jacks are available in thru-hole or SMT mounting.



**MODULAR JACKS WITH INTEGRATED MAGNETICS**



**HIGH SPEED JACKS - CAPABLE OF 1GB-10GB**



**MODULAR JACKS - SINGLE PORT**



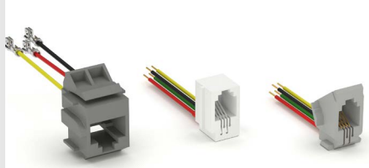
**MODULAR JACKS - MULTI PORT**



**MODULAR PLUGS**




**MODULAR JACKS - KEYSTONE STYLE**



**MODULAR JACKS WITH WIRE LEADS**



**MODULAR JACKS WITH USB**



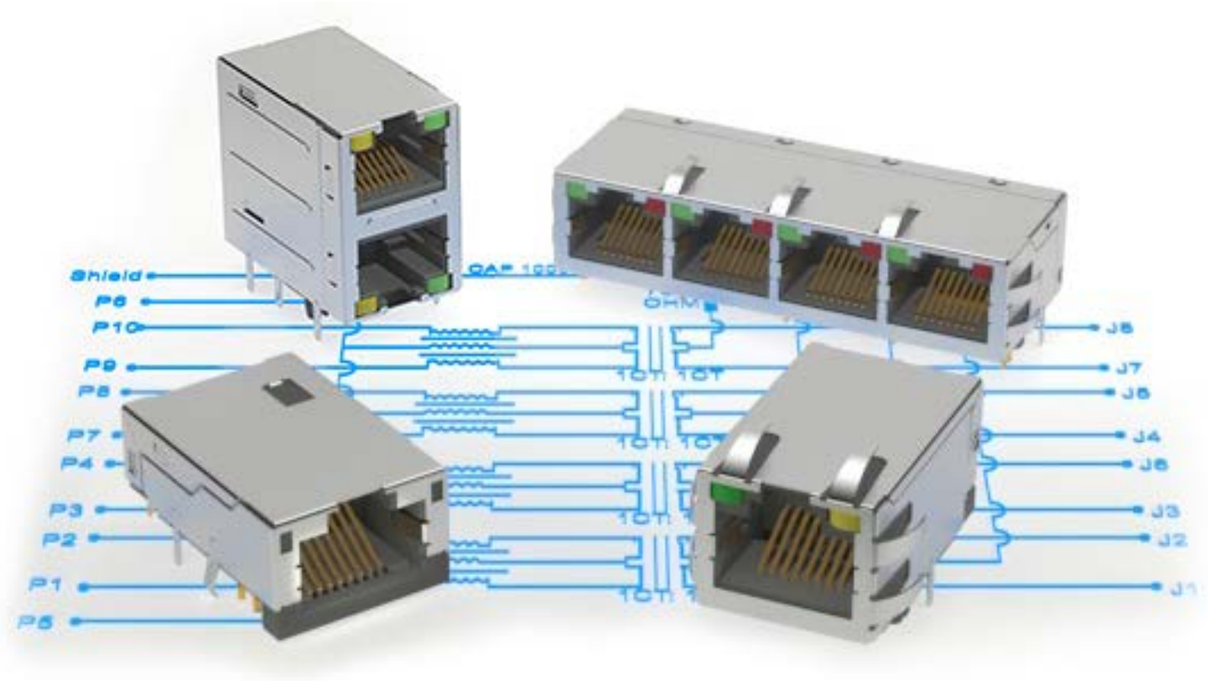
**RJ45 COUPLERS & ADAPTERS**



# Modular Jacks, Plugs, Adapters & Couplers

## MODULAR JACKS WITH INTEGRATED MAGNETICS

Adam Tech RJ-45 connectors with integrated magnetics are designed to support Base 10, 100 and 1000-T applications such as hubs, routers, ADSL modems, and ATM transmission equipment. The integrated magnetics allows the design engineer to save PC board real-estate and lower the total part count per system. This series meets all applicable specifications for CAT 5, 5e, 6 and IEEE 802.3. The USB model meets all applicable USB 2.0 specifications. All configurations are available with optional LED's.




## FEATURES & SPECIFICATIONS

### FEATURES:
Single, stacked and ganged configurations available
All products have a full metal shield to guard against electromagnetic interference. Hi-Temp option availableAll products are fully lead free and RoHS compliant

### MATING PLUGS:
Adam Tech modular telephone plugs and all industry standard telephone plugs.

### PACKAGING:
Anti-ESD plastic trays or tubes

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224049

### SPECIFICATIONS:

#### Material:
Insulator: PBT, glass filled, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze or Brass
Shield: Copper Alloy, Nickel or Tin plated

#### Contact Plating:
Gold over Nickel underplate on contact area, Tin over Copper underplate on solder tails.

#### Electrical:
Operating Voltage: 150V AC
Current Rating: 1.5 Amps Max.
Contact Resistance: 20 mΩ Max.
Insulation Resistance: 500 MΩ Min.
Dielectric Withstanding Voltage: 1500V AC for 1 Minute
DC resistance: 1.2 Ohms Max.
Interwinding capacitance: 35pF @ 1MHz
Insertion loss: 100KHz to 80MHz = -1.1dB Min.
Return loss: 1MHz to 30MHz = -18dB Min.
30MHZ to 80MHz = -12dB Min.
Rise time: 30nS Max.
Cross talk: 1MHz to 100MHz = 40dB TYP.
Common to Common mode Attenuation: 35dB TYP.

#### MECHANICAL:
Insertion force: 8 Contacts: 22.5N
10 Contacts: 24.5N

#### TEMPERATURE RATING:
Operation Temperature: -40°C ~ +85°C

## JACKS WITH INTEGRATED MAGNETICS & LEDs PART NUMBER CONFIGURATION

**MTJ - 8 8 C X 1 - FSD - LD - M5 - PG**

| SERIES | HOUSING PLUG SIZE | NO. OF CONTACT POSITIONS FILLED | HOUSING TYPE | PLATING | BODY COLOR | SHIELD PIN LOCATION FSD OR FSP | LED | TRANSFORMER M1 THRU M20 | OPTIONS: |
|---|---|---|---|---|---|---|---|---|---|
| **MTJ** = *Modular Telephone Jack* | **8** *or* **10** | **8** *or* **10** | **C** = *Tab Up, Extended Body*<br>**S** = *Tab Up, Standard Body*<br>**T** = *Tab Down, Short Body* | **X** = *Gold Flash*<br>**0** = *15 µin gold*<br>**1** = *30 µin gold*<br>**2** = *50 µin gold* | **1** = *Black* | *(See Shield Pin Option Chart on page 44)* | **BLANK** = *if none*<br>**LX** = *Led Color*<br>**RLX** = *Led with Resistor* | *(See page 44-45) Consult Factory for transformer types not shown* | *Add designator(s) to end of part number*<br>**PG** = *Panel ground tabs* |

## GANGED JACKS WITH INTEGRATED MAGNETICS & LEDs PART NUMBER CONFIGURATION

**MTJG - 4 - 8 8 T X 1 - FSD - LD - M5 - PG**

| SERIES | NO. OF PORTS | HOUSING PLUG SIZE | NO. OF CONTACT POSITIONS FILLED | HOUSING TYPE | PLATING | BODY COLOR | SHIELD PIN LOCATION FSD THRU FSH | LED | TRANSFORMER M1 THRU M20 | OPTIONS: |
|---|---|---|---|---|---|---|---|---|---|---|
| **MTJG** = *Magnetics Ganged Jack* | **2** *thru* **8** | **8** *or* **10** | **8** *or* **10** | **T** *or* **J** | **X** = *Gold Flash*<br>**0** = *15 µin gold*<br>**1** = *30 µin gold*<br>**2** = *50 µin gold* | **1** = *Black* | *(See Shield Pin Option Chart on page 44)* | **BLANK** = *if none*<br>**LX** = *Led Color*<br>**RLX** = *Led with Resistor* | *(See page 44-45) Consult Factory for transformer types not shown* | *Add designator(s) to end of part number*<br>**PG** = *Panel ground tabs* |

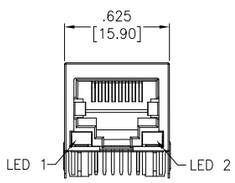
# Modular Jacks, Plugs, Adapters & Couplers

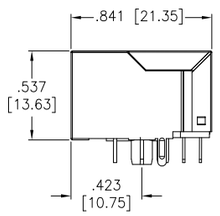
## MODULAR JACKS WITH INTEGRATED MAGNETICS

| PART NUMBER | CONTACT POSITIONS / CONTACTS FILLED | BODY TYPE | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|
| MTJ-88AX1-FSN-LG-M21Y | 8/8 | Type A - Top Entry | Vertical, Through Hole | View |
| MTJ-88AX1-FSN-LH-M4S | 8/8 | Type A - Top Entry | Vertical, Through Hole | View |
| MTJ-88AX1-FSN-LH1-M5C | 8/8 | Type A - Top Entry | Vertical, Through Hole | View |
| MTJ-88SUX1-FS-PG-VL28-M49C | 8/8 | Type S - Tab Up & Top Leds, Standard Body | Right Angle, Through Hole | View |
| MTJ-88SUX1-FS-VL28-M186C-WOT | 8/8 | Type S - Tab Up & Top Leds, Standard Body | Right Angle, Through Hole | View |
| MTJ-88SX1-FSD-PG-L35-M357Y | 8/8 | Type S - Tab Up & Top Leds, Standard Body | Right Angle, Through Hole | View |
| MTJ-88SX1-FSD-PG-LV-M66D | 8/8 | Type S - Tab Up & Top Leds, Standard Body | Right Angle, Through Hole | View |
| MTJ-88SX1-FSP-PG-LG-M7Y | 8/8 | Type S - Tab Up & Top Leds, Standard Body | Right Angle, Through Hole | View |
| MTJ-88SX1-LH-M204-HT | 8/8 | Type S - Tab Up & Top Leds, Standard Body | Right Angle, Through Hole | View |
| MTJ-88SX1-LH-M302 | 8/8 | Type S - Tab Up & Top Leds, Standard Body | Right Angle, Through Hole | View |
| MTJ-88SX1-LH-M5D-HT | 8/8 | Type S - Tab Up & Top Leds, Standard Body | Right Angle, Through Hole | View |
| MTJ-88TUX1-FSD-PG-VLG1-M4C | 8/8 | Type T - Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TUX1-FSD-VL5-M236Y-HT | 8/8 | Type T - Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TUX1-FSD-VL5-M236Y-HT-TR | 8/8 | Type T - Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TVX1-FSJ-LG-M149 | 8/8 | Type T - Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TVX1-FSJ-LG-M75C-WOT | 8/8 | Type T - Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FS-M4-SMT | 8/8 | Type T - Tab Down & Bottom Leds, Short Body | "Right Angle, Surface Mount" | View |

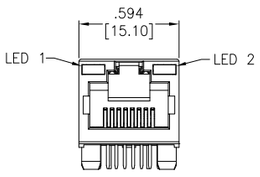
| PART NUMBER | CONTACT POSITIONS / CONTACTS FILLED | BODY TYPE | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|
| MTJ-88TX1-FS-M4T-SMT | 8/8 | Type T - Tab Down & Bottom Leds, Short Body | "Right Angle, Surface Mount" | View |
| MTJ-88TX1-FS-M4Y-SMT | 8/8 | Type T - Tab Down & Bottom Leds, Short Body | "Right Angle, Surface Mount" | View |
| MTJ-88TX1-FSD-D1LG-M224Y | 8/8 | Type T - Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FSD-LH1-M47C1 | 8/8 | Type T - Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FSD-M4 | 8/8 | Type T - Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FSD-PG-D1LD-M4 | 8/8 | Type T - Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FSD-PG-D1LH-M4C | 8/8 | Type T - Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FSD-PG-D1LH-M81 | 8/8 | Type T - Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FSD-PG-LG-M4 | 8/8 | Type T - Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FSD-PG-LH-M4 | 8/8 | Type T - Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FSD-PG-LH-M5 | 8/8 | Type T - Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FSP-PG-LG-M4 | 8/8 | Type T - Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-DUSB-88JX1-FS-L29-M339Y | 8/8 | | Right Angle, Through Hole | View |
| MTJ-DUSB-88JX1-FS-RL35-M86C | 8/8 | | Right Angle, Through Hole | View |
| MTJ-USB-88JX1-FS-PG-LH-M41C | 8/8 | | Right Angle, Through Hole | View |
| MTJ-USB-88JX1-FS-PG-LH-M49Y | 8/8 | | Right Angle, Through Hole | View |
| MTJ-USB-88JX1-FS-PG-LL-M41 | 8/8 | | Right Angle, Through Hole | View |

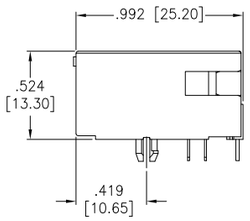
| PART NUMBER | BODY TYPE | PRODUCT DATA |
|---|---|---|
| MTJG-2-88JX1-V-FSG-L36-M268Y | Type J - Stacked | View |
| MTJG-2-88TUX1-FSD-PG-VLG-M5C | Type T - Tab Down, Short Body Magnetics & Leds 2, 4 & 5 Ports Ganged | View |
| MTJG-2-88TX1-FSD-PG-LH-M4 | Type T - Tab Down, Short Body Magnetics & Leds 2, 4 & 5 Ports Ganged | View |
| MTJG-2-88TX1-FSD-PG-LH-NRSP-M47C | Type T - Tab Down, Short Body Magnetics & Leds 2, 4 & 5 Ports Ganged | View |
| MTJG-4-88TX1-FSD-PG-LH-M4C | Type T - Tab Down, Short Body Magnetics & Leds 2, 4 & 5 Ports Ganged | View |
| MTJG-8-88JX1-V-FSG-PG-L16-M310C | Type J - Stacked | View |



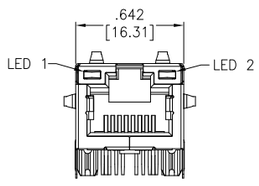



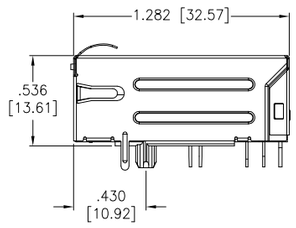

Type T Body Style



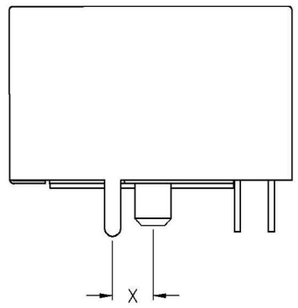

Type S Body Style



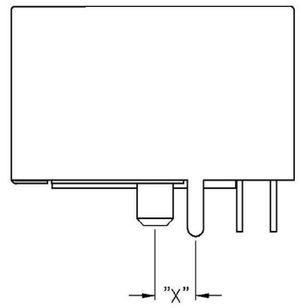

Type C Body Style

## SHIELD PIN OPTONS




SHIELD PIN OPTION X

FSA = .170" [4.32mm]
FSB = .144" [3.66mm]
FSC = Surface mount Type C
FSE = .120" [3.05mm]
FSG = .180" [4.57mm]
FSL = .179" [4.57mm]
FSP = .125" [3.17mm]
FST = .185" [4.69mm]
FSU = .123" [3.13mm]
FSV = .171" [4.35mm]
FS2 = .136" [3.46mm]
FS4 = .098" [2.49mm]
FS5 = .162" [4.11mm]



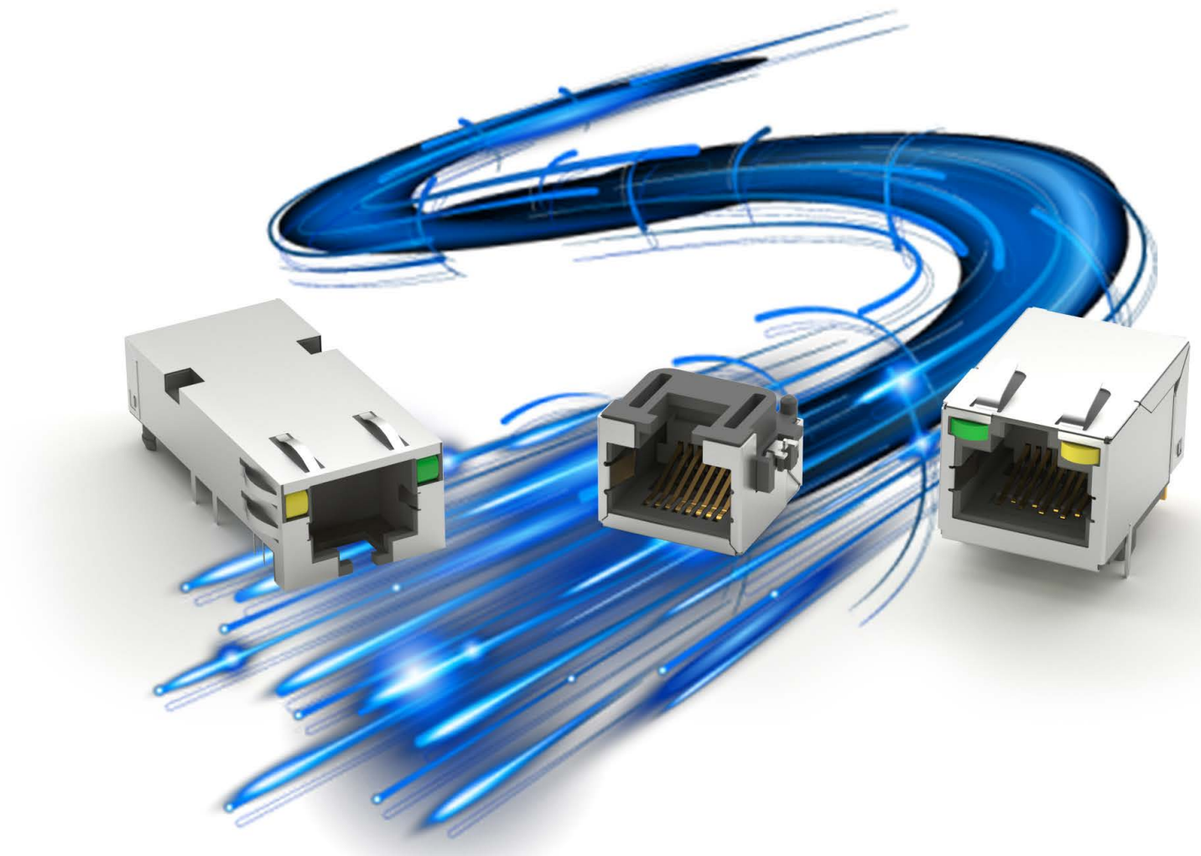

SHIELD PIN OPTION "X"

FSD = .120" [3.05mm]
FSH = .280" [7.11mm]
FSI = .157" [4.00mm]
FSJ = .150" [3.81mm]
FSK = .216" [5.50mm]
FSM = .135" [3.43mm] (Type AR)
FSN = .152" [3.85mm]
FSQ = .167" [4.24mm] (Type AS)
FSR = .144" [3.65mm]
FSS = .267" [6.80mm]
FSW = .137" [3.50mm]
FSY = .116" [2.95mm]
FSZ = .124" [3.15mm]
FS3 = .108" [2.75mm]
FS6 = .299" [7.60mm]
FS7 = .252" [6.40mm]

# Modular Jacks, Plugs, Adapters & Couplers

## HIGH SPEED JACKS - CAPABLE OF 1GB-10GB

Adam Tech's High Speed RJ45 Jacks are a complete line of RJ45 connectors designed to support 1GB-10GB performance. They are built to meet Category 5e, 6, or 6a performance according to TIA/EIA 568-C-2. These jacks support all Gigabyte and Ethernet Protocols. Versions include metal shielding for EMI protection with ground peg location options, ground fingers and LED's for link/activity indication and network speed verification. Adam Tech RJ45 jacks are compliant to FCC standards and are UL recognized.



## FEATURES & SPECIFICATIONS

### FEATURES:
8P8C
1 and 2 ports
Speeds: 1G, 2.5G, 5G, and 10G Base-T
Cable compatibility: Cat 5e, Cat 6, and Cat 6a
Shielded
Integrated magnetics
Integrated LEDs
High-temp thermoplastic insulator, UL 94V-0
UL certified

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224049

### SPECIFICATIONS:

### Material:
Insulator: Thermoplastic
Contacts: Phosphor bronze or copper alloy
Shield: Brass, nickel plated; or stainless steel

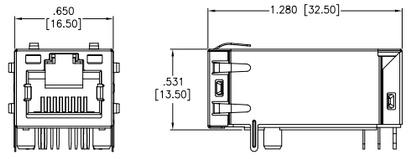
### Contact Plating:
Round contacts: Gold over nickel underplate overall
Flat contacts: Gold over nickel underplate on contact area, tin over nickel underplate on solder tails

### Electrical:
Operating voltage range: 125 to 150V A
Current rating range: 0.1 to 1.5 Amps
Contact resistance: 20 mΩ max. initial
Insulation resistance: 500 MΩ min.
Dielectric withstanding voltage: 500 to 2250V DC for 1 minute

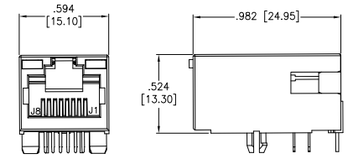
### TEMPERATURE RATING:
Operating temperature range: -40°C to +85°C

| PART NUMBER | STYLE | CONTACT POSITIONS / CONTACTS FILLED | MOUNTING ORIENTATION | MAGNETICS | SPEED | BODY TYPE | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| MTJ-88AGX1-FS-PG-VL38-M368C | Single Port | 8/8 | Right Angle, Through Hole | Yes | 10G (CAT 6a) | | View |
| MTJ-88AGX1-FS-VLG-M374C-WOT | Single Port | 8/8 | Right Angle, Through Hole | Yes | 5G (CAT 6) | | View |
| MTJ-88AX1-FS-TSMT-P-L5-M398AC-WOT-KT | Single Port | 8/8 | Vertical, Surface Mount | Yes | 1G (CAT 5e) | Tab Up, Top LED's, Standard Body, 1000M Base-T | View |
| MTJ-88AX1-FS-TSMT-P-L5-M398CH-WOT-KT | Single Port | 8/8 | Vertical, Surface Mount | Yes | 2.5G (CAT 5e) | Tab Up, Top LED's, Standard Body, 2.5G Base-T | View |
| MTJ-88BAX1-FS-PG-LG-M236C-WOT | Single Port | 8/8 | Right Angle, Through Hole | Yes | 5G (CAT 6) | | View |
| MTJ-88BAX1-FS-PG-LG-M383C-WOT | Single Port | 8/8 | Right Angle, Through Hole | Yes | 5G (CAT 6) | | View |
| MTJ-88CEX1-FS-PG-VL38-M315C-HF | Single Port | 8/8 | Right Angle, Through Hole | Yes | 10G (CAT 6a) | | View |
| MTJ-88NX1-FS-PG-L38-M367C-WOT | Single Port | 8/8 | Right Angle, Through Hole | Yes | 10G (CAT 6a) | | View |
| MTJ-88NX1-FS-PG-L38-M369C | Single Port | 8/8 | Right Angle, Through Hole | Yes | 2.5G (CAT 5e) | | View |
| MTJ-88SUX1-FS-M245C-HT-WOT | Single Port | 8/8 | Right Angle, Through Hole | Yes | 10G (CAT 6a) | | View |
| MTJ-88SUX1-FS-PG-LG-M245C | Single Port | 8/8 | Right Angle, Through Hole | Yes | 5G (CAT 6) | | View |
| MTJ-88SUX1-FS-PG-VL41-M245C-WOT | Single Port | 8/8 | Right Angle, Through Hole | Yes | 10G (CAT 6a) | | View |
| MTJ-88TUX1-FS2-PG2T-L19-C6A-HT | Single Port | 8/8 | Right Angle, Through Hole | No | 10G (CAT 6a) | | View |
| MTJ-88TUX1-FS2-PG2T-L5-C5E-HT | Single Port | 8/8 | Right Angle, Through Hole | | 2.5G (CAT 5e) | | View |
| MTJ-88TUX1-FS2-PG2T-L5-C6A-HT | Single Port | 8/8 | Right Angle, Through Hole | | 10G (CAT 6a) | | View |
| MTJG-2-88CAX1-FS5-PG-M328C | 1x2 | 8/8 | Right Angle, Through Hole | Yes | 10G (CAT 6a) | | View |
| MTJG-2-88CEX1-FS-PG-WLP-M370C-HT | 1x2 | 8/8 | Right Angle, Through Hole | Yes | 10G (CAT 6a) | | View |

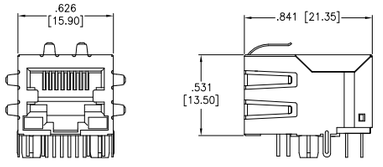
### HOUSING TYPE C



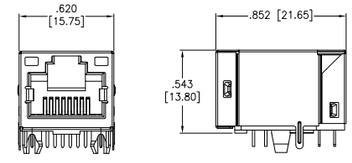

### HOUSING TYPE S



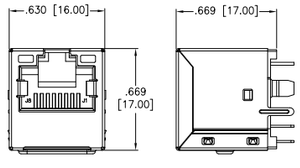

### HOUSING TYPE T



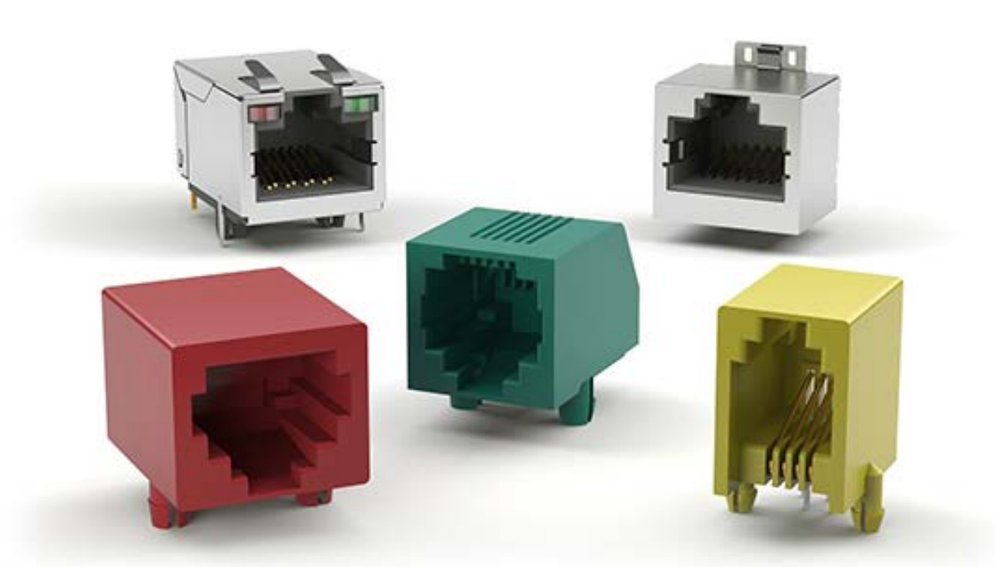

### HOUSING TYPE TU




### HOUSING TYPE A



Adam Tech Modular Jacks are a complete line of PCB and wire leaded jacks which are UL approved and meet all required FCC rules and regulations. Adam Tech offers a multitude of sizes (4P2C thru 10P10C) with styles including single, ganged and stacked versions with options of ferrite or magnetic filtering and or metal shielding. Jacks with integral LED's and combination hybrids such as MTJ/USB jacks are also available. These jacks are available in thru-hole or SMT mounting.



## FEATURES & SPECIFICATIONS

### FEATURES:
UL 1863 recognized versions
FCC compliant to No. 47 CFR part 68
Magnetic and Ferrite filtered types
4,6,8 and 10 positions available
Single, stacked or ganged
Hi-Temp and LED options
Unshielded or Metal Shielded
Thru-Hole or SMT mounting
Cat. 5 & 5e ANSI/TIA/EIA 568.2

### MATING PLUGS:
Adam Tech modular plugs and all industry standard telephone plugs.

### Packaging:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224049

### SPECIFICATIONS:
Material:
Standard Insulator: PBT, or ABS, rated UL94V-0
Optional Hi-Temp Insulator: Nylon 6T rated UL94V-0
Insulator Colors: Black or medium gray
Contacts: Phosphor Bronze
Shield: Phosphor Bronze, Nickel plated

### Contact Plating:
Flat contacts: Gold over Nickel underplate on contact area, Tin over Copper underplate on solder tails.
Round contacts: Gold over Nickel underplate overall

### Electrical:
Operating voltage: 150V AC max.
Current rating: 1.5 Amps max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 500 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Insertion force:
4 contacts: 17.6N
6 contacts: 20.6N
8 contacts: 22.5N
10 contacts: 24.5N

### Durability:
500 Cycles

### Temperature Rating:
Operating temperature: -40°C to +85°C

### Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

## PART NUMBER CONFIGURATION

**MTJ - 6 - 4 - 0 - 2 - 1 - S**

| SERIES | HOUSING PLUG SIZE | NO. OF CONTACT POSITIONS FILLED | HOUSING TYPE | PLATING | BODY COLOR | OPTIONS: |
|---|---|---|---|---|---|---|
| **MTJ** = *Modular Telephone Jack* | **4**, **6**, **8** *or* **10** | **2**, **4**, **6**, **8** *or* **10** | **0, 1, 2, 2B, 2C, 3, 5, 7, 9, A, E, F, G, H, K, M, T, V, W, WA, WB, Y, Q** | **X** = *Gold Flash over Nickel underplate Consult factory for additional plating options* | **1** = *Black*<br>**2** = *Gray* | *See below* |

### OPTIONS:

*Add designator(s) to end of part number*
**S** = *Face shielded jack (Body type 0 only)*
**FSX** = *Full metal shield ((See Shield Pin Option Chart on page 44))*
**SMT** = *Surface mount tails, housings 0, 5, 9, G & W with Hi-Temp insulator*
**N** = *No panel stops (Types: 1, 0, 2, 3, D)*
**K** = *Keyed telephone jack*
**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)*
**PG** = *Panel ground tabs*
**KT** = *Kapton Tape pickup when applicable*

# Modular Jacks, Plugs, Adapters & Couplers

## MODULAR JACKS - SINGLE PORT

| PART NUMBER | CONTACT POSITIONS / CONTACTS FILLED | BODY TYPE | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|
| MTJ-442BX2 | 4/4 | Compact & Shielded Jack - Type 2, 2b & 2c | Right Angle, Through Hole | View |
| MTJ-442CX2 | 4/4 | Compact & Shielded Jack - Type 2, 2b & 2c | Right Angle, Through Hole | View |
| MTJ-442X2 | 4/4 | Compact & Shielded Jack - Type 2, 2b & 2c | Right Angle, Through Hole | View |
| MTJ-443X1 | 4/4 | .645" Height, Top Entry, Open Body - Type 3 | Vertical, Through Hole | View |
| MTJ-445X1 | 4/4 | 460" Height, Side Entry - Type 5 | Right Angle, Through Hole | View |
| MTJ-447X1 | 4/4 | Thru Hole Side Entry - Type 7 | Right Angle, Through Hole | View |
| MTJ-44HX1 | 4/4 | .504" Height, Top Entry, Smt - Type H | Vertical, Surface Mount | View |
| MTJ-44VX1-SMT | 4/4 | .626" Height, Top Entry, Smt - Type V | Vertical, Surface Mount | View |
| MTJ-623X1-N-HT-P355C-A | 6/2 | .645" Height, Top Entry, Open Body - Type 3 | Vertical, Through Hole | View |
| MTJ-640X1 | 6/4 | 498" Height, Side Entry - Type 0 | Right Angle, Through Hole | View |
| MTJ-641X1 | 6/4 | .622" Height, Side Entry - Type 1 | Right Angle, Through Hole | View |
| MTJ-642BX2 | 6/4 | Compact & Shielded Jack - Type 2, 2b & 2c | Right Angle, Through Hole | View |
| MTJ-643X1 | 6/4 | .645" Height, Top Entry, Open Body - Type 3 | Vertical, Through Hole | View |
| MTJ-645X1 | 6/4 | 460" Height, Side Entry - Type 5 | Right Angle, Through Hole | View |
| MTJ-647X1 | 6/4 | Thru Hole Side Entry - Type 7 | Right Angle, Through Hole | View |
| MTJ-649X1 | 6/4 | .484" Height, Side Entry - Type 9 | Right Angle, Through Hole | View |
| MTJ-64FX1 | 6/4 | Top Entry, Enclosed Body - Type F | Vertical, Through Hole | View |
| MTJ-64HX1 | 6/4 | .504" Height, Top Entry, Smt - Type H | Vertical, Surface Mount | View |
| MTJ-64WAX1 | 6/4 | 453" Height, Side Entry, Smt - Type W | Right Angle, Surface Mount | View |
| MTJ-64WBX1 | 6/4 | .472" Height, Thru Hole & Smt - Type W | Right Angle, Surface Mount | View |
| MTJ-64YX1 | 6/4 | Internal Shield Low Profile Smt- Type Y | Right Angle, Surface Mount | View |
| MTJ-660X1 | 6/6 | 498" Height, Side Entry - Type 0 | Right Angle, Through Hole | View |
| MTJ-661X1 | 6/6 | 622" Height, Side Entry - Type 1 | Right Angle, Through Hole | View |
| MTJ-662BX2 | 6/6 | Compact & Shielded Jack - Type 2, 2b & 2c | Right Angle, Through Hole | View |
| MTJ-662X2 | 6/6 | Compact & Shielded Jack - Type 2, 2b & 2c | Right Angle, Through Hole | View |
| MTJ-663X1 | 6/6 | .645" Height, Top Entry, Open Body - Type 3 | Vertical, Through Hole | View |
| MTJ-665X1 | 6/6 | 460" Height, Side Entry - Type 5 | Right Angle, Through Hole | View |
| MTJ-667X1 | 6/6 | Thru Hole Side Entry - Type 7 | Right Angle, Through Hole | View |
| MTJ-669X1 | 6/6 | .484" Height, Side Entry - Type 9 | Right Angle, Through Hole | View |
| MTJ-66ARX1 | 6/6 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-66EX1 | 6/6 | .551" Height, Side Entry - Type E | Right Angle, Through Hole | View |
| MTJ-66FX1 | 6/6 | Top Entry, Enclosed Body - Type F | Right Angle, Through Hole | View |
| MTJ-66GX1 | 6/6 | .500" Height, Side Entry - Type G | Right Angle, Through Hole | View |
| MTJ-66HX1 | 6/6 | .504" Height, Top Entry, Smt - Type H | Vertical, Surface Mount | View |
| MTJ-66KX1 | 6/6 | .626" Height, Top Entry, Smt - Type K | Vertical, Surface Mount | View |
| MTJ-66VX1-SMT | 6/6 | .626" Height, Top Entry, Smt - Type V | Vertical, Surface Mount | View |
| MTJ-66WAX1 | 6/6 | .472" Height, Thru Hole & Smt - Type W | Right Angle, Through Hole | View |
| MTJ-66WBX1 | 6/6 | .472" Height, Thru Hole & Smt - Type W | Right Angle, Through Hole | View |
| MTJ-66YX1 | 6/6 | Internal Shield Low Profile Smt- Type Y | Right Angle, Through Hole | View |
| MTJ-880X1 | 8/8 | 498" Height, Side Entry - Type 0 | Right Angle, Through Hole | View |
| MTJ-881X1 | 8/8 | 622" Height, Side Entry - Type 1 | Right Angle, Through Hole | View |
| MTJ-882BX1 | 8/8 | Compact & Shielded Jack - Type 2, 2b & 2c | Right Angle, Through Hole | View |
| MTJ-883X1 | 8/8 | .645" Height, Top Entry, Open Body - Type 3 | Vertical, Through Hole | View |
| MTJ-885X1 | 8/8 | 460" Height, Side Entry - Type 5 | Right Angle, Through Hole | View |
| MTJ-887X1 | 8/8 | Thru Hole Side Entry - Type 7 | Right Angle, Through Hole | View |
| MTJ-889X1 | 8/8 | .484" Height, Side Entry - Type 9 | Right Angle, Through Hole | View |
| MTJ-889X1-FSE | 8/8 | .484" Height, Side Entry - Type 9 | Right Angle, Through Hole | View |
| MTJ-88AAX1-FSV-L16 | 8/8 | Type Aa - Led Jack Bottom Tab & Bottom Leds Thru Hole 8p8c | Right Angle, Through Hole | View |
| MTJ-88AAX1-FSV-LD | 8/8 | Type Aa - Led Jack Bottom Tab & Bottom Leds Thru Hole 8p8c | Right Angle, Through Hole | View |
| MTJ-88AAX1-FSV-LG | 8/8 | Type Aa - Led Jack Bottom Tab & Bottom Leds Thru Hole 8p8c | Right Angle, Through Hole | View |
| MTJ-88AAX1-FSV-LH | 8/8 | Type Aa - Led Jack Bottom Tab & Bottom Leds Thru Hole 8p8c | Right Angle, Through Hole | View |
| MTJ-88AAX1-FSV-LP | 8/8 | Type Aa - Led Jack Bottom Tab & Bottom Leds Thru Hole 8p8c | Right Angle, Through Hole | View |
| MTJ-88AAX1-FSV-LV | 8/8 | Type Aa - Led Jack Bottom Tab & Bottom Leds Thru Hole 8p8c | Right Angle, Through Hole | View |
| MTJ-88AAX1-FSV-PG-L16 | 8/8 | Type Aa - Led Jack Bottom Tab & Bottom Leds Thru Hole 8p8c | Right Angle, Through Hole | View |
| MTJ-88AAX1-FSV-PG-LD | 8/8 | Type Aa - Led Jack Bottom Tab & Bottom Leds Thru Hole 8p8c | Right Angle, Through Hole | View |
| MTJ-88AAX1-FSV-PG-LG | 8/8 | Type Aa - Led Jack Bottom Tab & Bottom Leds Thru Hole 8p8c | Right Angle, Through Hole | View |
| MTJ-88AAX1-FSV-PG-LH | 8/8 | Type Aa - Led Jack Bottom Tab & Bottom Leds Thru Hole 8p8c | Right Angle, Through Hole | View |
| MTJ-88AAX1-FSV-PG-LP | 8/8 | Type Aa - Led Jack Bottom Tab & Bottom Leds Thru Hole 8p8c | Right Angle, Through Hole | View |
| MTJ-88AAX1-FSV-PG-LV | 8/8 | Type Aa - Led Jack Bottom Tab & Bottom Leds Thru Hole 8p8c | Right Angle, Through Hole | View |
| MTJ-88ARX1-FSM-L16 | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-FSM-LD | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-FSM-LG | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-FSM-LH | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-FSM-LP | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-FSM-LV | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-FSM-PG-L16 | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-FSM-PG-LD | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-FSM-PG-LG | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-FSM-PG-LH | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-FSM-PG-LP | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-FSM-PG-LV | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-FSM-SMT-PG-L16 | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-FSM-SMT-PG-LD | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-FSM-SMT-PG-LG | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-FSM-SMT-PG-LH | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-FSM-SMT-PG-LP | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-FSM-SMT-PG-LV | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-L16 | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-LD | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-LG | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-LH | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-LP | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX1-LV | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |
| MTJ-88ARX2-LH-HT-D | 8/8 | Type Ar - Led Jack .531" Height Top Tab & Top Leds, Thru Hole | Right Angle, Through Hole | View |

| PART NUMBER | CONTACT POSITIONS / CONTACTS FILLED | BODY TYPE | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|
| MTJ-88CPX1-RF3-SMT | 8/8 | Edge Hang - Type C | Right Angle, Surface Mount | View |
| MTJ-88DX1-FSQ-L16 | 8/8 | Type D - Top Entry Led Jack .610" Height With Leds, Non-Shielded 8p8c | Vertical, Through Hole | View |
| MTJ-88DX1-FSQ-LD | 8/8 | Type D - Top Entry Led Jack .610" Height With Leds, Non-Shielded 8p8c | Vertical, Through Hole | View |
| MTJ-88DX1-FSQ-LG | 8/8 | Type D - Top Entry Led Jack .610" Height With Leds, Non-Shielded 8p8c | Vertical, Through Hole | View |
| MTJ-88DX1-FSQ-LH | 8/8 | Type D - Top Entry Led Jack .610" Height With Leds, Non-Shielded 8p8c | Vertical, Through Hole | View |
| MTJ-88DX1-FSQ-LP | 8/8 | Type D - Top Entry Led Jack .610" Height With Leds, Non-Shielded 8p8c | Vertical, Through Hole | View |
| MTJ-88DX1-FSQ-LV | 8/8 | Type D - Top Entry Led Jack .610" Height With Leds, Non-Shielded 8p8c | Vertical, Through Hole | View |
| MTJ-88DX1-L16 | 8/8 | Type D - Top Entry Led Jack .610" Height With Leds, Non-Shielded 8p8c | Vertical, Through Hole | View |
| MTJ-88DX1-LD | 8/8 | Type D - Top Entry Led Jack .610" Height With Leds, Non-Shielded 8p8c | Vertical, Through Hole | View |
| MTJ-88DX1-LG | 8/8 | Type D - Top Entry Led Jack .610" Height With Leds, Non-Shielded 8p8c | Vertical, Through Hole | View |
| MTJ-88DX1-LH | 8/8 | Type D - Top Entry Led Jack .610" Height With Leds, Non-Shielded 8p8c | Vertical, Through Hole | View |
| MTJ-88DX1-LP | 8/8 | Type D - Top Entry Led Jack .610" Height With Leds, Non-Shielded 8p8c | Vertical, Through Hole | View |
| MTJ-88DX1-LV | 8/8 | Type D - Top Entry Led Jack .610" Height With Leds, Non-Shielded 8p8c | Vertical, Through Hole | View |
| MTJ-88DX1-N-LG-P485U-HT | 8/8 | Type D - Top Entry Led Jack .610" Height With Leds, Non-Shielded 8p8c | Vertical, Through Hole | View |
| MTJ-88EX1 | 8/8 | .551" Height, Side Entry - Type E | Right Angle, Through Hole | View |
| MTJ-88FX1 | 8/8 | Top Entry, Enclosed Body - Type F | Vertical, Through Hole | View |
| MTJ-88GX1 | 8/8 | .500" Height, Side Entry - Type G | Right Angle, Through Hole | View |
| MTJ-88GX1-FSD-L16 | 8/8 | .500" Height, Side Entry - Type G | Right Angle, Through Hole | View |
| MTJ-88GX1-FSD-LD | 8/8 | .500" Height, Side Entry - Type G | Right Angle, Through Hole | View |
| MTJ-88GX1-FSD-LG | 8/8 | .500" Height, Side Entry - Type G | Right Angle, Through Hole | View |
| MTJ-88GX1-FSD-LH | 8/8 | .500" Height, Side Entry - Type G | Right Angle, Through Hole | View |
| MTJ-88GX1-FSD-LP | 8/8 | .500" Height, Side Entry - Type G | Right Angle, Through Hole | View |
| MTJ-88GX1-FSD-LV | 8/8 | .500" Height, Side Entry - Type G | Right Angle, Through Hole | View |
| MTJ-88GX1-FSD-PG-L16 | 8/8 | .500" Height, Side Entry - Type G | Right Angle, Through Hole | View |
| MTJ-88GX1-FSD-PG-LD | 8/8 | .500" Height, Side Entry - Type G | Right Angle, Through Hole | View |

| PART NUMBER | CONTACT POSITIONS / CONTACTS FILLED | BODY TYPE | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|
| MTJ-88GX1-FSD-PG-LG | 8/8 | .500" Height, Side Entry - Type G | Right Angle, Through Hole | View |
| MTJ-88GX1-FSD-PG-LP | 8/8 | .500" Height, Side Entry - Type G | Right Angle, Through Hole | View |
| MTJ-88GX1-FSD-PG-LV | 8/8 | .500" Height, Side Entry - Type G | Right Angle, Through Hole | View |
| MTJ-88GX1-FSD-PG6 | 8/8 | .500" Height, Side Entry - Type G | Right Angle, Through Hole | View |
| MTJ-88GX1-P285C-HT-D | 8/8 | .500" Height, Side Entry - Type G | Right Angle, Through Hole | View |
| MTJ-88HX1 | 8/8 | .504" Height, Top Entry, Smt - Type H | Right Angle, Through Hole | View |
| MTJ-88KX1 | 8/8 | .626" Height, Top Entry, Smt - Type K | Vertical, Surface Mount | View |
| MTJ-88TX1 | 8/8 | Type T Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FSD-L16 | 8/8 | Type T Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FSD-LD | 8/8 | Type T Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FSD-LG | 8/8 | Type T Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FSD-LH | 8/8 | Type T Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FSD-LP | 8/8 | Type T Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FSD-LV | 8/8 | Type T Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FSD-PG-L16 | 8/8 | Type T Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FSD-PG-LD | 8/8 | Type T Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FSD-PG-LG | 8/8 | Type T Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FSD-PG-LH | 8/8 | Type T Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FSD-PG-LP | 8/8 | Type T Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FSD-PG-LV | 8/8 | Type T Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-FSD-PGB | 8/8 | Type T Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-L16 | 8/8 | Type T Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-LD | 8/8 | Type T Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-LG | 8/8 | Type T Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-LH | 8/8 | Type T Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-LP | 8/8 | Type T Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88TX1-LV | 8/8 | Type T Tab Down & Bottom Leds, Short Body | Right Angle, Through Hole | View |
| MTJ-88VX1-SMT | 8/8 | .626" Height, Top Entry, Smt - Type V | Vertical, Surface Mount | View |
| MTJ-88WAX1 | 8/8 | .472" Height, Thru Hole & Smt - Type W | Right Angle, Surface Mount | View |
| MTJ-88WBX1 | 8/8 | .472" Height, Thru Hole & Smt - Type W | Right Angle, Surface Mount | View |
| MTJ-88YX1 | 8/8 | Internal Shield Low Profile Smt- Type Y | Right Angle, Surface Mount | View |
| MTJ-DUSB-88JX1-FS-LH | 8/8 | | | View |

Adam Tech Multi Port Jack Connectors combine multiple modular jack ports into one connector. The number of ports range from 2 to 16, configured in a ganged or stacked orientation. Other options include number of position/contacts, shielding, tab direction, and LEDs.



## FEATURES & SPECIFICATIONS

### FEATURES:
Multiple positions/contacts
Number of ports ranging from 2 to 16
Ganged or stacked orientation
Right angle
Through hole or surface mount
Shielded or unshielded
Up and/or down tab directions
LED options

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224049

### SPECIFICATIONS:

**Material:**
Insulator: PA66 or PBT, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor bronze or copper alloy
Shield: Brass, nickel plated

**Contact Plating:**
Gold over nickel underplate overall

**Electrical:**
Operating voltage: 150V AC max.
Current rating: 1.5 Amps max.
Contact resistance range: 20 to 35 mohms max
Insulation resistance range: 500 to 1000 Mohms min.
Dielectric withstanding voltage: 1000V AC for 1 minute

**Mechanical:**
Recommended wire size range: 18 to 28 AWG
O.D. insulation max.

**Temperature Rating:**
Operating temperature range: -40°C to +125°C

## PART NUMBER CONFIGURATION

**MTJG- 6 - 64 - 2 - 2 - 1 - LD -FSX**

| SERIES | NO. OF PORTS | PORT SIZE / POSITIONS FILLED | HOUSING TYPE | PLATING | HOUSING COLOR | LED | OPTIONS: |
|---|---|---|---|---|---|---|---|
| **MTJG** = *Ganged Telephone Jack* | **2** *thru* **6** | **64** = *6 position, 4 contacts (6P4C)*<br>**66** = *6 position, 6 contacts (6P6C)*<br>**88** = *8 position, 8 contacts (8P8C)*<br>**86** = *8 position, 6 contacts (8P6C)*<br>**1010** = *10 position, 10 contacts (10P10C)*<br>**108** = *10 position, 8 contacts (10P8C)* | **2, 2B, 2C, 3, 3A, 5, 7V, 7H, A, AM, AK, AR, AT AV, AY, B, C, G, N, T, TU, Q, S, SA** | **X** = *Gold Flash*<br>**0** = *15 µin gold*<br>**1** = *30 µin gold*<br>**2** = *50 µin gold*<br>**6** = *6 µin gold* | **1** = *Black*<br>**2** = *Medium Gray (Housing Type 7 only)* | *Configuration See Chart above Leave blank for no LEDs HOUSING TYPE AR, AM, C, G, J, T, TU, M, Q, S, SA* | *See below* |

**OPTIONS:**

*Add designator(s) to end of part number*
**SMT** = *Surface mount tails with Hi-Temp insulator for hi-temp soldering processes up to 260°C*
**PG** = *Panel ground tabs*
**C5E** = *Cat 5e*
**S** = *Face shielded jack*
**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)*
**FSX** = *Full metal shield (See Shield Pin Option Chart on page 44)*

| PART NUMBER | PORTS | CONTACT POSITIONS / CONTACTS FILLED | MOUNTING ORIENTATION | BODY STYLE | PRODUCT DATA |
|---|---|---|---|---|---|
| MTJG-12-88JX1-FSG-PG | 2 x 6 | 8/8 | Right Angle, Through Hole | | View |
| MTJG-2-642X1 | 1 x 2 | 8/8 | Right Angle, Through Hole | Side Entry - Type 2, 2b & 2c | View |
| MTJG-2-66NX1 | 1 x 2 | 8/8 | Right Angle, Through Hole | Thru Hole & Smt - Type 5 & N | View |
| MTJG-2-88ARX1-FSW-PG-LH-P114C-HT-A | 1 x 2 | 8/8 | Right Angle, Through Hole | Led Jack .531" Height Top Tab & Top Leds - Type AR | View |
| MTJG-2-88ARX1C-LE | 1 x 2 | 8/8 | Right Angle, Through Hole | Led Jack .531" Height Top Tab & Top Leds - Type AR | View |
| MTJG-2-88GX1-FSG | 1 x 2 | 8/8 | Right Angle, Through Hole | Side Entry - Type G | View |
| MTJG-2-88JX1-FSG-PG-LI6 | 2 x 1 | 8/8 | Right Angle, Through Hole | Ganged & Stacked Side Entry Jack - Type J | View |
| MTJG-2-88JX1-FSG-PG-P114C | 2 x 1 | 8/8 | Right Angle, Through Hole | Ganged & Stacked Side Entry Jack - Type J | View |
| MTJG-2-88JX1-FSH-LH-Y-HT | 2 x 1 | 8/8 | Right Angle, Through Hole | Ganged & Stacked Side Entry Jack - Type J | View |
| MTJG-3-665X1 | 1 x 3 | 8/8 | Right Angle, Through Hole | | View |
| MTJG-3-667HX2 | 1 x 3 | 8/8 | Right Angle, Through Hole | Top & Side Entry - Type 7 | View |
| MTJG-3-667VX2 | 1 x 3 | 8/8 | Right Angle, Through Hole | Top & Side Entry - Type 7 | View |
| MTJG-3-885X1 | 1 x 3 | 8/8 | Right Angle, Through Hole | | View |
| MTJG-4-888X1-P114C-HT-B | 1 x 4 | 8/8 | Right Angle, Through Hole | | View |
| MTJG-4-88ARX1-FSM-PG-LG | 1 x 4 | 8/8 | Right Angle, Through Hole | Led Jack .531" Height Top Tab & Top Leds - Type AR | View |
| MTJG-4-88ARX1-FSW-P114C-HT-A | 1 x 4 | 8/8 | Right Angle, Through Hole | Led Jack .531" Height Top Tab & Top Leds - Type AR | View |
| MTJG-4-88GX1-FSB | 1 x 4 | 8/8 | Right Angle, Through Hole | Side Entry - Type G | View |
| MTJG-4-88GX1-FSB-PG | 1 x 4 | 8/8 | Right Angle, Through Hole | Side Entry - Type G | View |
| MTJG-4-88TX1-P114C-HT-A | 1 x 4 | 8/8 | Right Angle, Through Hole | | View |
| MTJG-8-88JX1-FSG-PG | 2 x 4 | 8/8 | Right Angle, Through Hole | Ganged & Stacked Side Entry Jack - Type J | View |
| MTJG-X-642BX1 | 1 x 2 | 6/4 | Right Angle, Through Hole | | View |
| MTJG-X-882CX1 | 1 x 2 | 8/8 | Right Angle, Through Hole | | View |

Adam Tech's Modular Plugs provide modular jacks with an ideal mating solution. The series features a broad range of positions/contacts from 4P4C to 10P10C. Other options include shielded or unshielded, stranded or solid wire types, and flat or round cables. High speed solutions are available, with ratings ranging from Cat3 to Cat8. The series is complimented with accessories such as strain reliefs and hoods.



## FEATURES & SPECIFICATIONS

### FEATURES:
Preassembled Contacts
REA Compliant Terminations
Cat. 5 and 5E available
Contacts for Flat of Round wire
Short or Long body choices
Shielded versions

### MATING TELEPHONE JACKS:
Adam Tech modular jack series and all industry standard telephone Jacks.

### PACKAGING:
Anti-ESD plastic bags

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224049

### SPECIFICATIONS:

#### Material:
Insulator: Polycarbonate, rated UL94V-0
Insulator Color: Clear, (Blue optional)
Contacts: Phosphor Bronze

#### Contact Plating:
Gold over nickel underplate.

#### Electrical:
Operating voltage: 150V AC max.
Current rating: 1.5 Amps max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 500 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:
Cable to plug tensile strength: 7.71 Kgs (17 lbs) min.
Durability: 250 Cycles min.
Wire range: 26 to 28 Awg

#### Temperature Rating:
Operating temperature: -40°C to +70°C

## PART NUMBER CONFIGURATION

**MTP - 6 - 4 - U - K**

| SERIES | PLUG SIZE | NO. OF CONTACTS | PLATING | OPTIONS: |
|---|---|---|---|---|
| **MTP** = *Modular telephone plug, standard oval wire type*<br>**MTPR** = *Modular telephone plug for round cable* | **4, 6, 8** *or* **10** | **4, 6, 8** *or* **10** | **U** = *15 µin gold*<br>**W** = *30 µin gold*<br>**G** = *50 µin gold* | *Add designator(s) to end of part number*<br>**K** = *Molded in key (Plug size 8 & 10 only)*<br>**S** = *Solid wire contacts*<br>**EMI** = *Metal shielded type (Plug size 8 or 10 only)*<br>**OL** = *Offset Latch (Plug size 6 only)* |

| PART NUMBER | NUMBER OF POSITIONS/CONTACTS | SHIELDING | WIRE TYPE | CABLE TYPE | RATING | PRODUCT DATA |
|---|---|---|---|---|---|---|
| MTP-1010 | 10P10C | Unshielded | Stranded | Flat | CAT 3 | View |
| MTP-44-X | 4P4C (RJ9, RJ10, RJ22) | Unshielded | Stranded | Flat | CAT 3 | View |
| MTP-64-X | 6P4C (RJ11, RJ14) | Unshielded | Stranded | Flat | CAT 3 | View |
| MTP-66-X | 6P6C (RJ11, RJ12, RJ14, RJ25) | Unshielded | Stranded | Flat | CAT 3 | View |
| MTP-82 | 8P2C (RJ45) | Unshielded | Stranded | Flat | CAT 3 | View |
| MTP-88 | 8P8C (RJ45) | Unshielded | Stranded | Flat | CAT 3 | View |
| MTP-88-X | 8P8C (RJ45) | Unshielded | Stranded | Flat | CAT 3 | View |
| MTP-88-X-EMI-SP1 | 8P8C (RJ45) | Shielded | Stranded | Flat | CAT 3 | View |
| MTPR-1010 | 10P10C | Unshielded | Stranded | Round | CAT 3 | View |
| MTPR-44 | 4P4C (RJ9, RJ10, RJ22) | Unshielded | Stranded | Round | CAT 3 | View |
| MTPR-66 | 6P6C (RJ11, RJ12, RJ14, RJ25) | Unshielded | Stranded | Round | CAT 3 | View |
| MTPR-82 | 8P2C (RJ45) | Unshielded | Stranded | Round | CAT 3 | View |
| MTPR-88 | 8P8C (RJ45) | Unshielded | Stranded | Round | CAT 3 | View |
| MTPR-88-X | 8P8C (RJ45) | Unshielded | Stranded | Round | CAT 3 | View |
| MTPR-88-X-C | 8P8C (RJ45) | Unshielded | Stranded | Round | CAT 3 | View |
| MTPR-88-X-S | 8P8C (RJ45) | Unshielded | Solid | Round | CAT 3 | View |

Adam Tech's High Speed Modular Plugs support device bandwidth requirements with dependability and speed. These plugs boast speeds of Cat 5, Cat 6, Cat 6a, and Cat 8. The series is supported by accessories such as strain relief, plastic hoods, and plating options. Adam Tech is dedicated to supplying signal transmission applications with top-quality modular products.



## FEATURES & SPECIFICATIONS

### FEATURES:
8P8C
Speeds: Cat 5, 6, 6a, and 8
Gold plating options
Plugs for standard flat and round cables
Metal shielded plugs
Strain relief
Plastic hood
Solid wire contacts
UL certified

### APPLICATIONS:
Internet
Computer networking
Telecommunications

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224049

### SPECIFICATIONS:

#### Material:
Insulator: PC or PA6
Insulator color: Clear
Contacts: Copper alloy

#### Contact Plating:
Contact area: Gold over nickel underplate

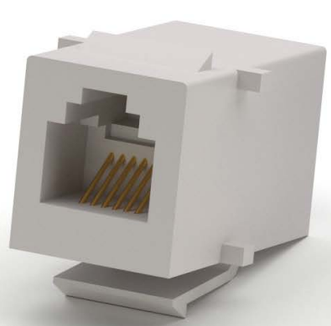
#### Electrical:
Voltage rating: 150 VAC rms
Current rating: 1.5 Amp
Contact resistance: 20 mohms max
Insulation resistance: 1000 Mohms min @ 500 VDC
Dielectric withstanding voltage: 1000 VAC for 1 minute

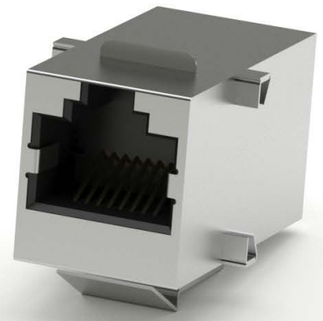
#### Mechanical:
Wire range: 21~26AWG

#### Temperature Rating:
Operating temperature range: -25°C to +55°C

| PART NUMBER | NUMBER OF POSITIONS/ CONTACTS | SHIELDING | WIRE TYPE | CABLE TYPE | RATING | ACCESSORIES | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| MTP-88-C6-SR-AX | 8P8C (RJ45) | Unshielded | | | CAT 6 | Strain Relief | View |
| MTP-88-C8-SR-AX | 8P8C (RJ45) | Unshielded | | | CAT 8 | Strain Relief | View |
| MTP-88-HD-A | 8P8C (RJ45) | Unshielded | | | | Hood | View |
| MTP-88-X-S-C6-A | 8P8C (RJ45) | Unshielded | Solid | Flat | CAT 6 | | View |
| MTP-88-X-S-C6AX | 8P8C (RJ45) | Unshielded | Solid | Flat | CAT 6a | | View |
| MTP-88-X-S-C8-A | 8P8C (RJ45) | Unshielded | Solid | Flat | CAT 8 | | View |
| MTPR-88-X-S-C6-A | 8P8C (RJ45) | Unshielded | Solid | Round | CAT 6 | | View |

Keystone Style Modular Jacks provide increased speed to data communication and LAN wiring applications. Adam Tech's snap-in keystone jacks offer speed ratings up to Cat5e and Cat6. These parts are unshielded and available in various positions/ contacts.








## FEATURES & SPECIFICATIONS

### FEATURES:
Multiple positions/contacts
Snap-in mounting
Various configurations
Ratings: Cat 5e, Cat 6, and Cat 6a
Shielded or unshielded

### SPECIFICATIONS:

**Material:**
Housing: ABS or zinc alloy
Contact Plating:
Gold over nickel underplate overall

**Electrical:**
Current rating: 1.5 Amps
Contact resistance: 20 mohms max
Insulation resistance range: 500 to 1000 Mohms min.
Dielectric withstanding voltage: 1000V AC for 1 minute

**Temperature Rating:**
Operating temperature range: -10°C to +60°C

## PART NUMBER CONFIGURATION

**MTJK- 8 - 8 - 1 - C5E - B - 0**

| SERIES | HOUSING SIZE | POSITIONS FILLED | BODY STYLE | PERFORMANCE LEVEL | INSULATOR COLOR | PLATING |
|---|---|---|---|---|---|---|
| **MTJK** = *Modular Keystone Jack* | **8** | **4, 6,** *or* **8** | **1** *thru* **99** | **C2** = *Standard*<br>**C5** = *Cat 5*<br>**C5E** = *Cat 5e*<br>**C6** = *Cat 6*<br>**C6A** = *Cat 6a*<br>**C7** = *Cat 7*<br>**C8** = *Cat 8* | **B** = *Black*<br>**Y** = *Yellow*<br>**W** = *White*<br>**R** = *Red*<br>**IV** = *Ivory*<br>**G** = *Green*<br>**GY** = *Gray*<br>**BL** = *Blue*<br>**OR** = *Orange* | **Blank** = *Gold Flash*<br>**15** = *15 µin gold*<br>**30** = *30 µin gold*<br>**50** = *50 µin gold* |

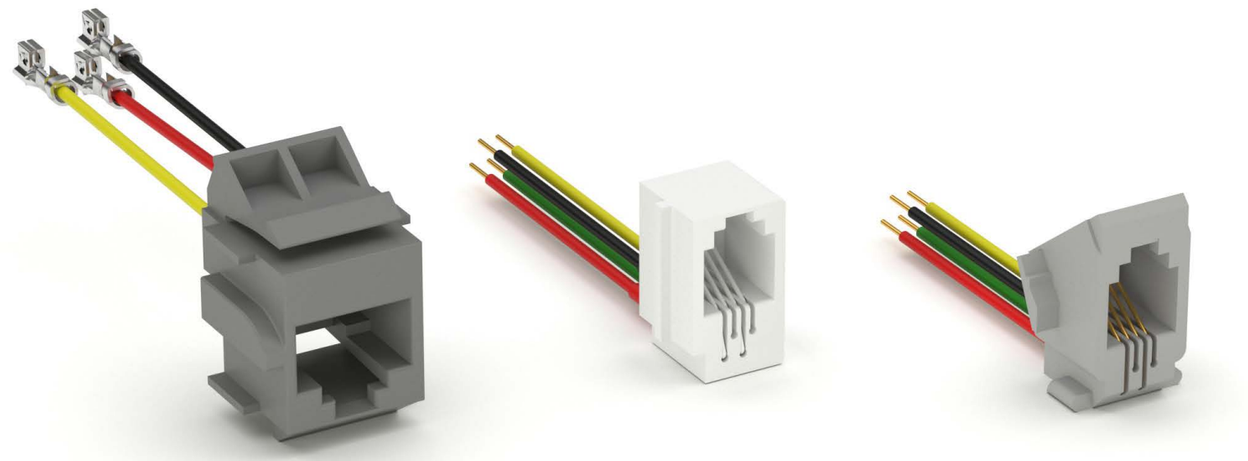
| PART NUMBER | CONNECTOR | HOUSING SIZE | POSITIONS FILLED | OPTIONS | PRODUCT DATA |
|---|---|---|---|---|---|
| MTJK-84-01-C5E | Keystone Jack | 8 | 4 | | View |

## CASE STUDY



Keystone Jacks can be found at the back of an office phone and are used to connect the device to the telephone line.

Adam Tech MTJP Series Wire Leaded Handset and Panel Jacks are conveniently prepared with wire leads ready for final assembly. This series has a multitude of housing shapes to fit many specific applications. They are offered in 4, 6, & 8 positions with choice of Stripped and Tinned leads or leads with Spade Terminals. Adam Tech jacks are UL and CSA approved and meet all required FCC rules and regulations.



## FEATURES & SPECIFICATIONS

### FEATURES:
UL approved
FCC compliant to No. 47 CFR part 68
Prepared for Final Assembly
4P, 6P and 8P versions
Custom Jacks available

### MATING PLUGS:
All industry standard line cords manufactured with telephone plugs

### PACKAGING:
Anti-ESD plastic bags

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224049

### SPECIFICATIONS:

### Material:
Insulator: ABS, (Nylon 66 optional), rated UL94V-0
Insulator Colors: Medium gray or black
Contacts: Phosphor Bronze
Wires: 26 Awg, UL-1061, 80°C, VW-1, 300V.

### Contact Plating:
Gold over Nickel underplate on contact area.

### Electrical:
Operating voltage: 150V AC max.
Current rating: 1.5 Amps max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 500 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

### Mechanical:
Insertion force:  4 Contacts: 500g, 6 contacts 750g
8 contacts: 900g, 10 contacts: 1000g
Durability: 500 Cycles min.

### Temperature Rating:
Operating temperature: -40°C to +85°C

## PART NUMBER CONFIGURATION

**MTJP - 616E - X - A1 - 1**

| SERIES | HOUSING | CONTACT PLATING | WIRE LEAD TYPE | HOUSING COLOR |
|---|---|---|---|---|
| **MTJP** = *Wire Leaded Jack* | **616B, 616E, 616L, 616M, 616P, 616W, 623K4, 623K6, 623P4, 623P6, 623T4, 623T6, 648K4, 648K6, 641** | **X** = *Gold Flash*<br>**0** = *15 µin. gold*<br>**1** = *30 µin. gold*<br>**2** = *50 µin. gold* | **A1** = *7" Wire leads, stripped 1/4" and tinned*<br>**A2** = *7" Wire leads, with spade terminal* | **1** = *Black*<br>**2** = *Medium Gray* |

| PART NUMBER | POSITIONS | CONTACTS LOADED | MOUNTING STYLE | WIRE TERMINATION | KEYED | PRODUCT DATA |
|---|---|---|---|---|---|---|
| MTJP-616E-X-A1-1 | 4 | 4 | Panel Stops | 7" Wire Leads, Stripped 1/4" and Tinned | | View |
| MTJP-616L-X-A1-2 | 4 | 4 | Panel Stops | 7" Wire Leads, Stripped 1/4" and Tinned | | View |
| MTJP-616M-X-A1-2 | 4 | 4 | Panel Stops | 7" Wire Leads, Stripped 1/4" and Tinned | | View |
| MTJP-616W-X-A1-2 | 4 | 4 | Panel Stops | 7" Wire Leads, Stripped 1/4" and Tinned | | View |
| MTJP-623-K4-X-A1-1 | 6 | 4 | Panel Stops | 7" Wire Leads, Stripped 1/4" and Tinned | | View |
| MTJP-623-K6-X-A1-1 | 6 | 6 | Panel Stops | 7" Wire Leads, Stripped 1/4" and Tinned | | View |
| MTJP-623-P4-X-A1-1 | 6 | 4 | Panel Stops | 7" Wire Leads, Stripped 1/4" and Tinned | | View |
| MTJP-641-X-A1-1 | 6 | 4 | Panel Stops | 7" Wire Leads, Stripped 1/4" and Tinned | | View |
| MTJP-648-K4-X-A1-1 | 6 | 4 | Snap In | 7" Wire Leads, Stripped 1/4" and Tinned | | View |
| MTJP-648-K6-X-A1-1 | 6 | 6 | Snap In | 7" Wire Leads, Stripped 1/4" and Tinned | | View |

Adam Tech's Combo Modular Jack series offers versatility with the inclusion of USB ports. These RJ45/USB Combo connectors are fully shielded and equipped with LEDs. Options include single or dual USB ports, integrated magnetics, and speed. This modular jack/USB design increases product flexibility and further alleviates capacity constraints.





## FEATURES & SPECIFICATIONS

### FEATURES:
8P8C RJ45s
Type A (USB 2.0 and USB 3.0)
Single and dual port USB
Right angle, through hole mounting
Fully shielded
Integrated magnetic options
LED options

### SPECIFICATIONS:

### Material:
Insulator: PA66 or PBT, rated UL 94V-0
Insulator color: Black
Contacts: Copper alloy or phosphor bronze
Shield: Brass or copper alloy, nickel plated; or stainless steel

### Contact Plating:
Gold over nickel underplate overall

### Electrical:
Current rating: 1.5 Amps max
Voltage rating: 150V AC
Contact resistance range: 20 to 30 mohms max
Insulation resistance: 500 Mohms min.
Dielectric withstanding voltage range: 500 to 1000V AC for 1 minute

### Temperature Rating:
Operating temperature range: -40°C to +85°C

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224049

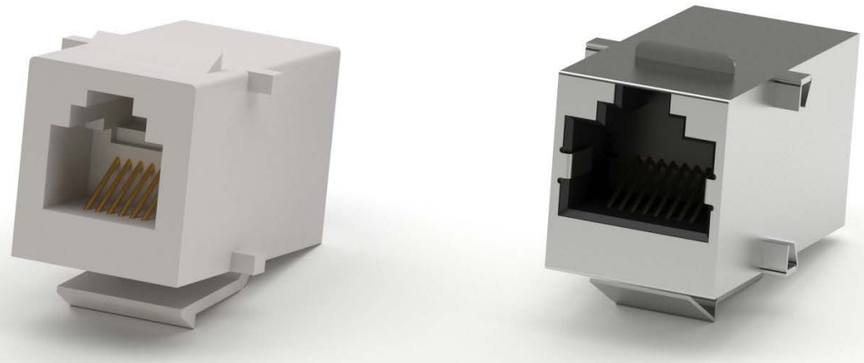
| PART NUMBER | NUMBER OF POSITIONS/ CONTACTS | MOUNTING ORIENTATION | USB TYPE | NUMBER OF USB PORTS | SHIELDING | LED | INTEGRAL MAGNETICS | APPLICATION | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|---|
| MTJ-DUSB-88JX1-FS-L29-M339Y | 8P8C (RJ45) | Right Angle | Type A (USB 2.0) | Dual USB Port | Full Shield | Green/ Orange - Yellow | Yes | 1G Base-T w/protect component | View |
| MTJ-DUSB-88JX1-FS-LH | 8P8C (RJ45) | Right Angle | Type A (USB 2.0) | Dual USB Port | Full Shield | Green - Yellow | No | N/A | View |
| MTJ-DUSB-88JX1-FS-RL35-M86C | 8P8C (RJ45) | Right Angle | Type A (USB 2.0) | Dual USB Port | Full Shield | Green - Green/ Yellow | Yes | 1G Base-T | View |
| MTJ-USB-88JX1-FS-PG-LH-M41C | 8P8C (RJ45) | Right Angle | Type A (USB 2.0) | Single USB Port | Full Shield | Green - Yellow | Yes | 10/100 Base-T | View |
| MTJ-USB-88JX1-FS-PG-LH-M49Y | 8P8C (RJ45) | Right Angle | Type A (USB 2.0) | Single USB Port | Full Shield | Green - Yellow | Yes | 10/100 Base-T (POE) | View |
| MTJ-USB-88JX1-FS-PG-LL-M41 | 8P8C (RJ45) | Right Angle | Type A (USB 2.0) | Single USB Port | Full Shield | Orange/ Green - Yellow | Yes | 10/100 Base-T | View |

## CASE STUDY




Modular Jack & USB combo connectors are commonly used in routers where both an ethernet connection and USB data connection (example: connecting an external storage device to be wirelessly accessible by multiple devices) are required.

RJ45 Couplers and Adapters provide LAN networks with the ability to extend a network cable to reach a device. Adam Tech's line of RJ45 couplers and adapters are compatible with modular jacks of various positions/contacts, and support ratings up to Cat5e and Cat6. Other options include snap-in or free hang mounting, as well as full shield or unshielded.



## FEATURES & SPECIFICATIONS

### FEATURES:
Multiple positions/contacts
Various configurations
Free hanging or snap-in mounting
Shielded or unshielded
Available ratings: Cat 5e and Cat6

### SPECIFICATIONS:

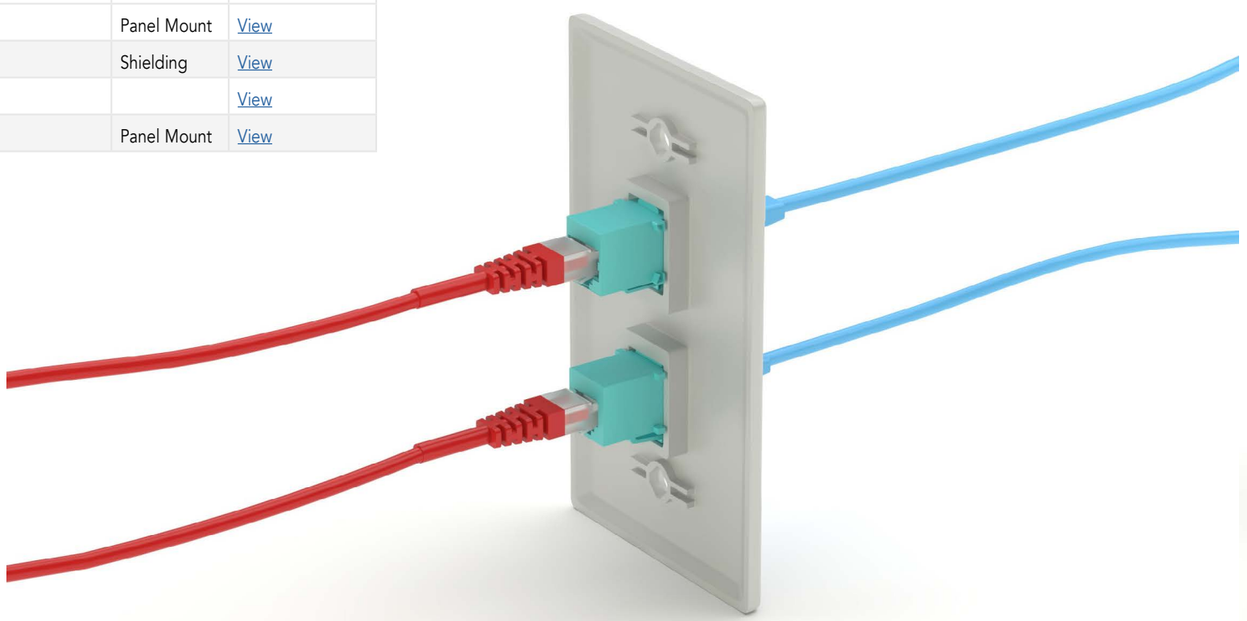
### Material:
Insulator: ABS or PBT, rated UL 94V-0
Insulator color: Black or white
Contacts: Brass or phosphor bronze
Shield: Stainless steel

### Contact Plating:
Contact area: Gold over nickel underplate
Solder tails: Tin over copper underplate

### Electrical:
Current rating: 1.5 Amps
Voltage rating range: 125 to 150V AC
Contact resistance range: 20 to 60 mohms max
Insulation resistance: 1000 Mohms min. @ 500 VDC
Dielectric withstanding voltage range: 750 to 1000V AC for 1 minute

### Temperature Rating:
Operating temperature range: -40°C to +85°C

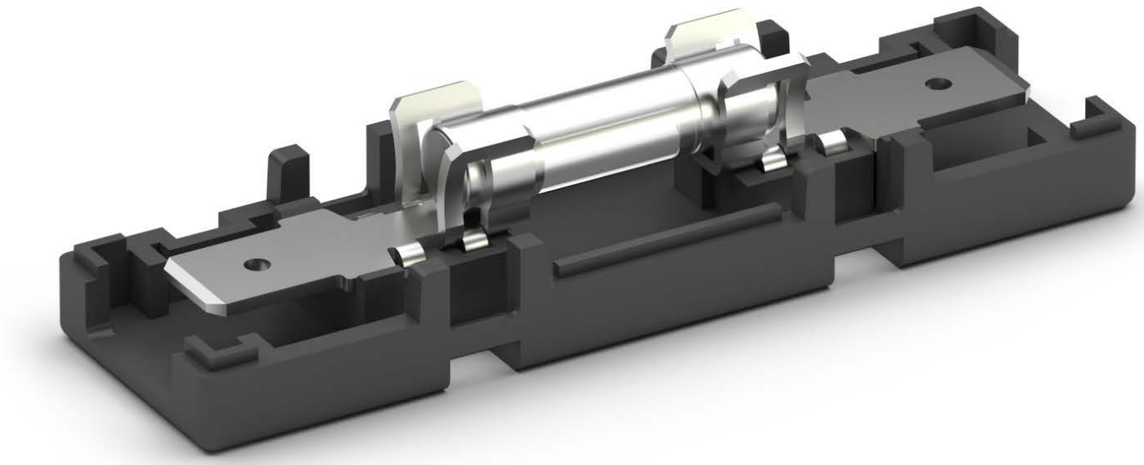
| PART NUMBER | CONNECTOR | HOUSING SIZE | POSITIONS FILLED | OPTIONS | PRODUCT DATA |
|---|---|---|---|---|---|
| MTJC-66-X-B | Coupler | 6 | 6 | Panel Mount | View |
| MTJC-88-X-B-S | Coupler | 8 | 8 | Shielding | View |
| MTJC-88-X-C5E-A | Coupler | 8 | 8 | | View |
| MTJC-88-X-PB-C6 | Coupler | 8 | 8 | Panel Mount | View |





# Fuse Holders

Adam Tech Fuseholders are fully enclosed in Hi Temp thermoplastic with integrated .250" Male Quick Connect terminals on either side. The unique plastic enclosure offers a stacking side mount option to integrate a series of fuseholders side by side. Available in 0.50, 3, and 6 Amp options, Adam Tech fuseholders are an efficient option for protecting your application.



## FEATURES & SPECIFICATIONS

### FEATURES
0.50, 3, and 6 Amp versions (custom amperages available upon request)
Side Stackability
Compact, Protective Enclosure

### MATING CONNECTORS:
Wire Mounted Female Quick Disconnect Terminals

### PACKAGING:
Anti-ESD plastic trays or tubes

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no: Each fuse is individually UL approved

### SPECIFICATIONS:

**Material:**
Hi-Temp insulator: Thermoplastic Rated UL 94-V0
Insulator Color:  Black
Contacts: Phosphor Bronze
Contact Plating: Tin Plating

**Electrical:**
Operating Voltage:
Current Rating:
Contact Resistance:
Insulation Resistance:
Dielectric Withstanding Voltage:

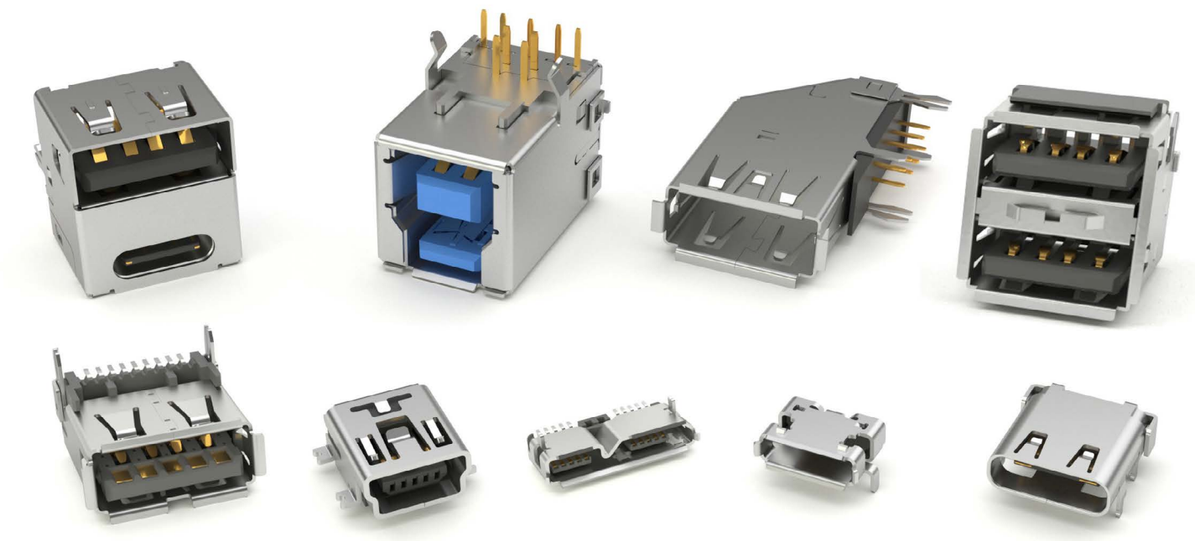
**Temperature Ratings:**
Operating Temperature:  -20C to +70C

| PART NUMBER | CURRENT RATING | PRODUCT DATA |
|---|---|---|
| FH-A-A01A | 0.5 Amps | View |
| FH-A-A01B | 3 Amps | View |
| FH-A-A01C | 6 Amps | View |



# USB Connectors
UNIVERSAL SERIAL BUS

Adam Tech USB, USB4, Mini USB, Micro USB, and USB Type C series connectors are a complete line of shielded, hot pluggable, high speed I/O interface connectors available in a variety of body styles, sizes, positions and mounting orientations. Each is shielded for superior EMI/RFI protection and features spring contacts for exceptional connectivity properties. Specially designed shells with flares eliminate misconnection and kinked boardlocks add a strong, stable PCB attachment. An ideal solution for low cost, high speed connection to peripheral devices.



## FEATURES & SPECIFICATIONS

### FEATURES:
Type A, B, and C
USB 4.0, 3.2, 3.1, 3.0, and 2.0
High-speed I/O applications (up to 40Gbps – USB4)
USB Type-C (reversible, 24-pin design)
USB-IF Compatible
Variety of circuit sizes
Multiple body styles and sizes
Various mounting orientations
Through hole or surface mount options
Edge mount types available
Shielded for EMI/RFI protection
Waterproof options available
Secure, reliable connection designs to prevent disconnects

### MATING CONNECTORS:
All industry standard USB products and cables

### PACKAGING:
Anti-ESD plastic trays or tubes

### APPROVALS AND CERTIFICATIONS:
UL Recognized File No. E224053
USB-IF Implementers Forum

### SPECIFICATIONS:

#### Material:
Standard insulator: PBT, glass filled, rated UL94V-0
Optional insulator: High-temperature thermoplastic (PA9T or equivalent), rated UL94V-0
Insulator color: Black (white optional)
Contacts: Phosphor bronze, brass, or copper alloy
Shell: Steel, stainless steel, or copper alloy, nickel plated (gold flash optional)

#### Contact Plating:
Mating area: Gold or gold flash over nickel underplate (up to 30µ")
Solder tails: Tin over copper or nickel underplate (matte tin options available)

#### Electrical:
Operating voltage: 5V to 100V AC
Current rating: 1A to 8A max
Contact resistance: 30 to 50 mΩ max (30-40 mΩ typical initial)
Insulation resistance: 100 MΩ to 1000 MΩ min
Dielectric withstanding voltage: 100V to 500V AC for 1 minute

#### Mechanical:
Insertion force: 3 oz max
Withdrawal force: 0.5 oz min
Durability: Up to 10,000 mating cycles

#### Temperature Ratings:
Operating temperature: -55°C to +105°C (application dependent)
Soldering process temperature:
- Standard insulator: 235°C
- High-temp insulator: 260°C






### PART NUMBER CONFIGURATION

| USB | - | A | - | S | - | RA | - | SMT |
|---|---|---|---|---|---|---|---|---|

| SERIES | TYPE | PORTS | MOUNTING ANGLE | OPTIONS: |
|---|---|---|---|---|
| **USB** = *Universal Serial Bus*<br>**MUSB** = *Mini USB*<br>**MCR** = *Micro USB* | **A** = *USB 2.0 Type A*<br>**A3** = *USB 3.2 Type A*<br>**AP** = *USB 2.0 Type A Plug*<br>**AP3** = *USB 3.2 Type A Plug*<br>**B** = *USB 2.0 Type B*<br>**B3** = *USB 3.2 Type B*<br>**B5** = *USB 2.0 Type B (Mini) 5 pin*<br>**BP3** = *USB 3.2 Type B Plug*<br>**C20** = *USB 2.0 Type C*<br>**C31 or C32** = *USB 3.2 Type C*<br>**C40** = *USB 4.0 Type C* | **S** = *Single port*<br>**D** = *Dual port*<br>**T** = *Triple port*<br>**Q** = *Quad port* | **RA** = *Right Angle*<br>**RU** = *Right Angle Upright*<br>**VT** = *Vertical Mount*<br>**S** = *Wire Termination (Plug Only)* | *See below* |

**OPTIONS:**

*Add designator(s) to end of part number*
**15** = *15u" Gold*
**30** = *30u" Gold*
**BK** = *Black Body*
**EH** = *Edge Hang*
**EH1** = *Edge Hang type 1*
**HF** = *Halogen Free*
**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)*
**NF** = *No Flange*
**NP** = *No Peg*
**PP** = *Pick and Place Cap*
**R** = *Reverse*
**SMT** = *Surface Mount Leads with Hi-Temp insulator for Hi-Temp soldering processes up to 260°C*
**SS** = *Short Shield*
**T/R** = *Tape & Reel packaging*
**TSMT** = *True Surface Mount Leads with Hi-Temp insulator for Hi-Temp soldering processes up to 260°C*

| PART NUMBER | PRODUCT TYPE | USB STANDARD | GENDER | ORIENTATION | PIN COUNT | TERMINATION | INGRESS/ WATERPROOF RATING | PRODUCT INFO |
|---|---|---|---|---|---|---|---|---|
| CA-USB4-CM-CM-0.8M-A | Type C | USB 4.0 Gen 3 (40 Gb/s) | Plug | N/A | 24 | Cable Assembly | N/A | View |
| CA-USB4-CM-CM-XXM-A1 | Type C | USB 4.0 Gen 3 (40 Gb/s) | Plug | N/A | 24 | Cable Assembly | N/A | View |
| MCR-B-MPLUG-CS12 | Micro B | USB 2.0 (480Mb/s) | Plug | Vertical | 5 | DIP | N/A | View |
| MCR-B-S-RA-SMT-CS14-T/R | Micro B | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 5 | SMT | N/A | View |
| MCR-B-S-RA-SMT-CS5A-NF-T/R | Micro B | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 5 | SMT | N/A | View |
| MCR-B-S-RA-SMT-EH4B-T/R | Micro B | USB 2.0 (480Mb/s) | Receptacle | Mid-Mount | 5 | SMT | N/A | View |
| MCR-B-S-RA-TSMT-CS1-WP-T/R | Micro B | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 5 | SMT | IPX5 | View |
| MCR-B-S-V-SMT-P-CS1-10-PP-T/R | Micro B | USB 2.0 (480Mb/s) | Receptacle | Vertical | 5 | SMT | N/A | View |
| MCR-BP3 | Micro B | USB 3.2 Gen 1 (5Gb/s) | Plug | Straight | 5 | Cable Solder Type | N/A | View |
| MUSB-8P-S-RA-TSMT-01-10 | Mini B | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 8 | SMT | N/A | View |
| MUSB-B5-S-RA | Mini B | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 5 | DIP | N/A | View |
| MUSB-B5-S-RA-SMT-PP-T/R | Mini B | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 5 | SMT | N/A | View |
| MUSB-B5-S-VT | Mini B | USB 2.0 (480Mb/s) | Receptacle | Vertical | 5 | DIP | N/A | View |
| MUSB-B5-S-VT-02 | Mini B | USB 2.0 (480Mb/s) | Receptacle | Vertical | 5 | DIP | N/A | View |
| MUSB-B5-S-VT-LSP | Mini B | USB 2.0 (480Mb/s) | Receptacle | Vertical | 5 | DIP | N/A | View |
| MUSB-B5-S-VT-TSMT-CS1-10-PP-T/R | Mini B | USB 2.0 (480Mb/s) | Receptacle | Vertical | 5 | DIP | N/A | View |
| USB-A-C31-D-VT | Dual Type A and C | USB 2.0 (480Mb/s) and USB 3.2 Gen 1 (5Gb/s) | Receptacle | Vertical | 4+24 | DIP | N/A | View |
| USB-A-D-RA | Type A | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 4 | DIP | N/A | View |
| USB-A-D-RA-EH-BK | Type A | USB 2.0 (480Mb/s) | Receptacle | Mid-Mount | 4 | DIP | N/A | View |
| USB-A-D-VT | Type A | USB 2.0 (480Mb/s) | Receptacle | Vertical | 4 | DIP | N/A | View |
| USB-A-S-RA | Type A | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 4 | DIP | N/A | View |
| USB-A-S-RA-EH1A | Type A | USB 2.0 (480Mb/s) | Receptacle | Mid-Mount | 4 | DIP | N/A | View |
| USB-A-S-RA-HT | Type A | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 4 | DIP | N/A | View |
| USB-A-S-RA-SMT | Type A | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 4 | SMT | N/A | View |
| USB-A-S-RA-SMT-HD-T/R | High Retention Type A | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 4 | SMT | N/A | View |
| USB-A-S-RA-TSMT | Type A | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 4 | SMT | N/A | View |
| USB-A-S-RA-WT | Type A | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 4 | DIP | N/A | View |
| USB-A-S-RU | Type A | USB 2.0 (480Mb/s) | Receptacle | Right Angle Upright | 4 | DIP | N/A | View |
| USB-A-S-RU-S4 | Type A | USB 2.0 (480Mb/s) | Receptacle | Right Angle Upright | 4 | DIP | N/A | View |
| USB-A-S-RU-TH-CS9-HC-NF-HT-TR | Type A | USB 2.0 (480Mb/s) | Receptacle | Right Angle Upright | 4 | DIP | N/A | View |
| USB-A-S-VT | Type A | USB 2.0 (480Mb/s) | Receptacle | Vertical | 4 | DIP | N/A | View |
| USB-A-S-VT-WT | Type A | USB 2.0 (480Mb/s) | Receptacle | Vertical | 4 | DIP | N/A | View |
| USB-A-S-VTA | Type A | USB 2.0 (480Mb/s) | Receptacle | Vertical | 4 | DIP | N/A | View |
| USB-A-S-VTA-HT | Type A | USB 2.0 (480Mb/s) | Receptacle | Vertical | 4 | DIP | N/A | View |
| USB-A-T-RA | Type A | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 4 | DIP | N/A | View |
| USB-A3-C31-D-RA-CS1 | Dual Type A and C | USB 3.2 Gen 1 (5Gb/s) | Receptacle | Right Angle | 9+24 | DIP | N/A | View |
| USB-A3-D-RA-A | Type A | USB 3.2 Gen 1 (5Gb/s) | Receptacle | Right Angle | 9 | DIP | N/A | View |
| USB-A3-D-RA-A3B-HT-HF-15-TR | Type A | USB 3.2 Gen 1 (5Gb/s) | Receptacle | Right Angle | 9 | DIP | N/A | View |
| USB-A3-S-RA | Type A | USB 3.2 Gen 1 (5Gb/s) | Receptacle | Right Angle | 9 | DIP | N/A | View |
| USB-A3-S-RA-SMT | Type A | USB 3.2 Gen 1 (5Gb/s) | Receptacle | Right Angle | 9 | SMT | N/A | View |
| USB-A3-S-RU-CS2-BK-30-HT | Type A | USB 3.2 Gen 1 (5Gb/s) | Receptacle | Right Angle Upright | 9 | DIP | N/A | View |
| USB-A3-S-RU-HT | Type A | USB 3.2 Gen 1 (5Gb/s) | Receptacle | Right Angle Upright | 9 | DIP | N/A | View |
| USB-A3-S-VT-CS5A | Type A | USB 3.2 Gen 1 (5Gb/s) | Receptacle | Vertical | 9 | DIP | N/A | View |
| USB-AP-S-RA | Type A | USB 2.0 (480Mb/s) | Plug | Right Angle | 4 | DIP | N/A | View |
| USB-AP-S-RA-SMT | Type A | USB 2.0 (480Mb/s) | Plug | Right Angle | 4 | SMT | N/A | View |
| USB-AP3-S | Type A | USB 3.2 Gen 1 (5Gb/s) | Plug | Straight | 9 | Cable Solder Type | N/A | View |
| USB-B-S-RA | Type B | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 4 | DIP | N/A | View |
| USB-B-S-RA-TSMT | Type B | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 4 | SMT | N/A | View |
| USB-B-S-RA-WT-SPCC | Type B | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 4 | DIP | N/A | View |
| USB-B-S-VT | Type B | USB 2.0 (480Mb/s) | Receptacle | Vertical | 4 | DIP | N/A | View |
| USB-B-S-VT-HT | Type B | USB 2.0 (480Mb/s) | Receptacle | Vertical | 4 | DIP | N/A | View |
| USB-B-S-VT-WT | Type B | USB 2.0 (480Mb/s) | Receptacle | Vertical | 4 | DIP | N/A | View |
| USB-B3-S-RA | Type B | USB 3.2 Gen 1 (5Gb/s) | Receptacle | Right Angle | 9 | DIP | N/A | View |
| USB-B3-S-RA-CS5A-3 | Type B | USB 3.2 Gen 1 (5Gb/s) | Receptacle | Right Angle | 9 | DIP | N/A | View |
| USB-BP3-S | Type B | USB 3.2 Gen 1 (5Gb/s) | Plug | Straight | 9 | Cable Solder Type | N/A | View |
| USB-C20-PLUG-J-SMT-DC-TR | Type C | USB 2.0 (480Mb/s) | Plug | Vertical | 16 | SMT | N/A | View |
| USB-C20-PLUG-R-BK-HT-PP | Type C | USB 2.0 (480Mb/s) | Plug | Straddle/ Edge | 24 | DIP Straddle Mount | N/A | View |
| USB-C20-PLUG-R1-BK-HT-PP | Type C | USB 2.0 (480Mb/s) | Plug | Straddle/ Edge | 16 | DIP Straddle Mount | N/A | View |
| USB-C20-S-RA-CS16A-BK-TR | Type C | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 6 | DIP | N/A | View |
| USB-C20-S-RA-CS22B-SMT-WP-BK-TR | Type C | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 6 | SMT | IP68 | View |
| USB-C20-S-RA-CS22E-SMT-WP-BK-TR | Type C | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 6 | SMT | IPX7 | View |
| USB-C20-S-RA-CS50-EH-WP-BK-TR | Type C | USB 2.0 (480Mb/s) | Receptacle | Mid-Mount | 8 | DIP | IPX8 | View |
| USB-C20-S-RA-CS52-WP-BK-TR | Type C | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 24 | DIP | IPX7 | View |
| USB-C20-S-RA-CS6-BK-TR | Type C | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 16 | DIP | N/A | View |
| USB-C20-S-RA-CS67-SMT-WP-BK-30-TR | Type C | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 16 | SMT | IPX8 | View |
| USB-C20-S-RA-CS68-SMT-WP-BK-30-TR | Type C | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 16 | SMT | IPX8 | View |

| PART NUMBER | PRODUCT TYPE | USB STANDARD | GENDER | ORIENTATION | PIN COUNT | TERMINATION | INGRESS/ WATERPROOF RATING | PRODUCT INFO |
|---|---|---|---|---|---|---|---|---|
| USB-C20-S-RA-TSMT-CS33-BK-TR | Type C | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 16 | SMT | N/A | View |
| USB-C20-S-RU-CS1-BL-BK | Type C | USB 2.0 (480Mb/s) | Receptacle | Right Angle Upright | 6 | DIP | N/A | View |
| USB-C20-S-RU-CS2A-BL-BK | Type C | USB 2.0 (480Mb/s) | Receptacle | Right Angle Upright | 14 | DIP | N/A | View |
| USB-C20-S-RU-CS3-BK-15-TR | Type C | USB 2.0 (480Mb/s) | Receptacle | Right Angle Upright | 16 | DIP | N/A | View |
| USB-C20-S-VT-CS13-SMT-BK-PP-TR | Type C | USB 2.0 (480Mb/s) | Receptacle | Vertical | 6 | SMT | N/A | View |
| USB-C20-S-VT-CS15-WP-BK | Type C | USB 2.0 (480Mb/s) | Receptacle | Vertical | 2 | DIP | IPX8 | View |
| USB-C20-S-VT-CS51-TSMT-WP-BK-PP-TR | Type C | USB 2.0 (480Mb/s) | Receptacle | Vertical | 16 | SMT | IPX8 | View |
| USB-C20-S-VT-CS7-WP-BK-PP-TR | Type C | USB 2.0 (480Mb/s) | Receptacle | Vertical | 6 | DIP | IPX7 | View |
| USB-C31-A-D-VT-CS1 | Dual Type A and C | USB 2.0 (480Mb/s) | Receptacle | Vertical | 4+14 | DIP | N/A | View |
| USB-C31-D-RA-CS2 | Dual Type C and C | USB 3.2 Gen 2 (10Gb/s) | Receptacle | Right Angle | 24+24 | DIP | N/A | View |
| USB-C31-PLUG-A-BK-PP-T/R | Type C | USB 3.2 Gen 2 (10Gb/s) | Plug | Straddle/ Edge | 24 | DIP Straddle Mount | N/A | View |
| USB-C31-PLUG-H-SMT-DC-TR | Type C | USB 3.2 Gen 2 (10Gb/s) | Plug | Straddle/ Edge | 24 | SMT Straddle Mount | N/A | View |
| USB-C31-S-RA-CS10A-SMT-BK-30-TR | Type C | USB 3.2 Gen 2 (10Gb/s) | Receptacle | Right Angle | 24 | SMT | N/A | View |
| USB-C31-S-RA-CS12-BK-TR | High Retention Type C | USB 3.2 Gen 1 (5Gb/s) | Receptacle | Right Angle | 24 | SMT + DIP | N/A | View |
| USB-C31-S-RA-CS13-BK-TR | Type C | USB 2.0 (480Mb/s) | Receptacle | Right Angle | 16 | DIP | N/A | View |
| USB-C31-S-RA-CS18-WP-WT-30-TR | Type C | USB 3.2 Gen 1 (5Gb/s) | Receptacle | Right Angle | 24 | SMT + DIP | IPX4 | View |
| USB-C31-S-RA-CS1D-BK-T/R | Type C | USB 3.2 Gen 2x2 (20Gb/s) | Receptacle | Right Angle | 24 | SMT + DIP | N/A | View |
| USB-C31-S-RA-CS2-SMT-BK-T/R | Type C | USB 3.2 Gen 2x2 (20Gb/s) | Receptacle | Right Angle | 24 | SMT | N/A | View |
| USB-C31-S-RA-CS7C-BK-15-TR | Type C | USB 3.2 Gen 1 (5Gb/s) | Receptacle | Right Angle | 16 | SMT | N/A | View |
| USB-C31-S-RA-EH-BK-CS1A-TR | Type C | USB 3.2 Gen 2 (10Gb/s) | Receptacle | Mid-Mount | 24 | SMT + DIP | N/A | View |
| USB-C31-S-RA-EH-WP-BK-CS3-HF-TR | Type C | USB 3.2 Gen 2 (10Gb/s) | Receptacle | Mid-Mount | 24 | SMT + DIP | IPX7 | View |
| USB-C31-S-RA-EH-WP-WF-BK-CS9-15-TR | Type C | USB 3.2 Gen 1 (5Gb/s) | Receptacle | Mid-Mount | 24 | SMT | IPX8 | View |
| USB-C31-S-RA-EH2-SMT-BK-TR | Type C | USB 3.2 Gen 1 (5Gb/s) | Receptacle | Mid-Mount | 24 | SMT | N/A | View |

| PART NUMBER | PRODUCT TYPE | USB STANDARD | GENDER | ORIENTATION | PIN COUNT | TERMINATION | INGRESS/ WATERPROOF RATING | PRODUCT INFO |
|---|---|---|---|---|---|---|---|---|
| USB-C31-S-RA-EH2.0B-BK-T/R | Type C | USB 3.2 Gen 2x2 (20Gb/s) | Receptacle | Mid-Mount | 24 | SMT + DIP | N/A | View |
| USB-C31-S-RA-SMT-BK-TR | Type C | USB 3.2 Gen 2 (10Gb/s) | Receptacle | Right Angle | 24 | SMT | N/A | View |
| USB-C31-S-RA-TR | Type C | USB 3.2 Gen 2 (10Gb/s) | Receptacle | Right Angle | 24 | SMT + DIP | N/A | View |
| USB-C31-S-SM-BK-TR | Type C | USB 3.2 Gen 2 (10Gb/s) | Receptacle | Straddle/ Edge | 24 | SMT Straddle Mount | N/A | View |
| USB-C31-S-VT-CS2A-BK-PP-TR | Type C | USB 3.2 Gen 2x2 (20Gb/s) | Receptacle | Vertical | 24 | SMT | N/A | View |
| USB-C31-S-VT-CS4-BK-PP-T/R | Type C | USB 3.2 Gen 2 (10Gb/s) | Receptacle | Vertical | 24 | SMT | N/A | View |
| USB-C32-S-PLUG-EH-SMT-CS1A-DC-TR | Type C | USB 3.2 Gen 2 (10Gb/s) | Receptacle | Mid-Mount | 24 | SMT | N/A | View |
| USB-C32-S-RA-CS15D-SMT-WP-BK-30-TR | Type C | USB 3.2 Gen 2 (10Gb/s) | Receptacle | Right Angle | 24 | SMT | IPX8 | View |
| USB-C32-S-RA-CS27A-BK-30-A-TR | Type C | USB 3.2 Gen 2 (10Gb/s) | Receptacle | Right Angle | 24 | SMT + DIP | N/A | View |
| USB-C32-S-RA-CS27A-BK-30-B-TR | Type C | USB 3.2 Gen 2 (10Gb/s) | Receptacle | Right Angle | 24 | SMT + DIP | N/A | View |
| USB-C32-S-RA-CS30-WP-BK-TR | Type C | USB 3.2 Gen 2 (10Gb/s) | Receptacle | Right Angle | 24 | SMT | IPX7 | View |
| USB-C32-S-RA-EH-WP-BK-CS42-TR | Type C | USB 3.2 Gen 2 (10Gb/s) | Receptacle | Mid-Mount | 24 | SMT | IP68 | View |
| USB-C32-S-RA-WF-BK-CS43-TR | Type C | USB 3.2 Gen 2 (10Gb/s) | Receptacle | Right Angle | 24 | SMT | N/A | View |
| USB-C32-S-RU-CS4-BK-TR | Type C | USB 3.2 Gen 1 (5Gb/s) | Receptacle | Right Angle Upright | 24 | SMT | N/A | View |
| USB-C40-S-RA-BK-30-TR | Type C | USB 4.0 Gen 3 (40 Gb/s) | Receptacle | Right Angle | 24 | SMT + DIP | N/A | View |
| USB-C40-S-RA-CS1-BK-TR | Type C | USB 4.0 Gen 3 (40 Gb/s) | Receptacle | Right Angle | 24 | SMT | N/A | View |
| USB-C40-S-RA-CS1-SMT-BK-30-TR | Type C | USB 4.0 Gen 3 (40 Gb/s) | Receptacle | Right Angle | 24 | SMT | N/A | View |
| USB-C40-S-RA-CS2-SMT-BK-30-TR | Type C | USB 4.0 Gen 3 (40 Gb/s) | Receptacle | Right Angle | 24 | SMT | N/A | View |
| USB-C40-S-RA-CS4-EH-BK-TR | Type C | USB 4.0 Gen 3 (40 Gb/s) | Receptacle | Mid-Mount | 24 | SMT + DIP | N/A | View |
| USB-C40-S-RA-CS50-EH-WP-BK-TR | Type C | USB 4.0 Gen 3 (40 Gb/s) | Receptacle | Mid-Mount | 24 | SMT | IPX8 | View |
| USB-C40-S-RA-CS5A-X-EH-BK | Type C | USB 4.0 Gen 3 (40 Gb/s) | Receptacle | Mid-Mount | 24 | SMT + DIP | N/A | View |
| USB-C40-S-RA-CS6-SMT-BK-30-T/R | Type C | USB 4.0 Gen 3 (40 Gb/s) | Receptacle | Right Angle | 24 | SMT | N/A | View |
| USB-C40-S-RA-CS67-SMT-WP-BK-30-TR | Type C | USB 4.0 Gen 3 (40 Gb/s) | Receptacle | Right Angle | 24 | SMT | IPX8 | View |
| USB-C40-S-RA-CS68-SMT-WP-BK-30-TR | Type C | USB 4.0 Gen 3 (40 Gb/s) | Receptacle | Right Angle | 24 | SMT | IPX8 | View |
| USB-C40-S-VT-CS51A-TSMT-WP-BK-PP-TR | Type C | USB 4.0 Gen 3 (40 Gb/s) | Receptacle | Vertical | 24 | SMT | IPX8 | View |

# HSecurLinC USB Latching Connectors and Cables

Adam Tech's extensive line of USB products is further enhanced by our HSecurLinC USB Latching Connectors and Cables. This series is composed of USB Type-C (including USB4) and Mini USB products, each featuring a secure latch to ensure reliable connections between mated connectors and cables. These products are offered in speeds of 480Mbps, 5Gbps, and 40Gbps. Cable assembly configurations include male-to-male, female-to-female, and female-to-male, with right-angle options available. Additionally, Adam Tech has the capability to manufacture custom cables tailored to meet each customer's specific needs.



## FEATURES & SPECIFICATIONS

### FEATURES:

Latch for secure and reliable mating connections during vibration and motion
USB Type-C and Mini USB connectors and cables
USB4 connector and cables
Data transmission speeds: 480Mbps, 5Gbps, and 40Gbps
Backwards compatibility to USB 2.0 and USB 3.1 standards
Keyed, color coded, system to prevent mis-mating and compliant to automotive requirements
Shrouded and secure over-molded shell to prevent connector damage
Cable assembly options: female to female, male to male, and male to female
Right angle option for USB4 and USB 3.1 Type-C cable assemblies
Flammability class: UL94 V-0
Latching design to meet USCAR-2 requirements
Vibration level: V1

### SPECIFICATIONS:

### Material:

Insulator: Hi-temp thermoplastic, rated UL 94V-0
Contacts: Copper alloy or phosphor bronze
Shell: Stainless steel, nickel or tin plated

### Electrical:

Voltage rating: 5-48V
Current rating: 1-5A
Contact Resistance: 30-40mΩ max (connector), 2 Ω max (cable)
Insulation Resistance: 100MΩ min (connector), 5 MΩ min at
100V DC and 10 MΩ min at 300V DC (cable)

### Mechanical:

Durability: 20 cycles (latch)
Cable Retention force: 100g downward vertical at 60CM; 40N for 1 minute
Mating force: 45N max
Un-mating force: 75N max

### Temperature Rating:

Operating temperature range: -40°C to +85°C

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. ECBT2-E224053 and ECBT8-E224053

| PART NUMBER | TYPE | CABLE ASSEMBLY CONFIGURATION | PRODUCT DATA |
|---|---|---|---|
| CA-USB-MBMF-MBMF-1M | Mini USB Cable Assembly | Female to Female | View |
| CA-USB-MBML-MBFL-1M | Mini USB Cable Assembly | Male to Female | View |
| CA-USB-MBML-MBML-1M | Mini USB Cable Assembly | Male to Male | View |
| CA-USB31-CFLA-CFLA-1M | USB 3.1 Cable Assembly | Female to Female | View |
| CA-USB31-CMLA-CFLA-1M | USB 3.1 Cable Assembly | Male to Female | View |
| CA-USB31-CMLA-CMLA-1M | USB 3.1 Cable Assembly | Male to Male | View |
| CA-USB31-CMRLA-CFLA-1M | USB 3.1 Cable Assembly | Male (Right Angle) to Female | View |
| CA-USB31-CMRLA-CMLA-1M | USB 3.1 Cable Assembly | Male (Right Angle) to Male | View |
| CA-USB4-CFLA-CFLA-0.6M | USB4 Cable Assembly | Female to Female | View |
| CA-USB4-CMLA-CFLA-0.8M | USB4 Cable Assembly | Male to Female | View |
| CA-USB4-CMLA-CMLA-1M | USB4 Cable Assembly | Male to Male | View |
| CA-USB4-CMRLA-CFLA-0.8M | USB4 Cable Assembly | Male (Right Angle) to Female | View |
| CA-USB4-CMRLA-CMLA-1M | USB4 Cable Assembly | Male (Right Angle) to Male | View |
| MUSB-B5-S-RA-AB-A | Mini USB Connector | N/A | View |
| USB-C40-S-RA-CS5A-A-EH-BK | USB4/USB 3.1 Connector | N/A | View |

# DisplayPort Connectors

## DISPLAYPORT & MINI DISPLAYPORT

Adam Tech DisplayPort series is a new high band width digital interface connection designed to provide true digital imaging while providing a multitude of colors and crystal clear sound through one small plug which can also supply power. There are four main links, one auxiliary channel and one hot-plug signal line. Adam Tech DisplayPort connectors are fully compatible with industry standards and are backwards compatible to VGA, DVI & HDMI.



## FEATURES & SPECIFICATIONS

### FEATURES:
Ultra small size package
Hot Pluggable
Supports color depth of 6, 8, 10, 12 and 16 bits per color components
Supports a maximum of 8.64 Gbit/s data rate over a 2 meter cable
Can be used in applications up to 15 meters (49.21 feet)

### MATING CONNECTORS:
Adam Tech Display Port custom cables and all industry standard Display Port Cables

### PACKAGING:
Anti-ESD plastic trays or tubes

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Insulator: LCP, Glass filled, rated UL94V-0, color
Black
Contacts: Copper Alloy
Shell: Copper Alloy, nickel plated

### Contact Plating:
Gold over nickel underplate on mating area, Tin over Copper underplate on tails

### Electrical:
Operating Voltage: 40V AC
Current Rating: 0.5 Amps max.
Contact Resistance: 30 mø max.
Insulation Resistance: 100 Mø min.
Dielectric Withstanding Voltage: 500V AC for 1 minute

### Mechanical:
Mating Cycles: 10,000 Cycles Min

### Terperature Ratings:
Operating Temperature: -20°C to +85°C

| PART NUMBER | GENDER | VERSION | MOUNTING ORIENTATION | OPTIONS | PRODUCT DATA |
|---|---|---|---|---|---|
| DPC-F-S-RA-CS2-BL-15-EMI | Receptacle | DisplayPort | Right Angle Thru Hole | Board Locks | View |
| DPC-F-S-RA-SMT-BL | Receptacle | DisplayPort | Right Angle Surface Mount | Board Locks | View |
| DPC-F-S-RA-SMT-BL-TR | Receptacle | DisplayPort | Right Angle Surface Mount | Board Locks | View |
| DPC-F-S-RA-SMT-P-BL | Receptacle | DisplayPort | Right Angle Surface Mount | Board Locks | View |
| DPC-F-S-RA-SMT-P-CS2-15-TR | Receptacle | DisplayPort | Right Angle Surface Mount | Peg | View |
| DPC-F-S-VT-CS1 | Receptacle | DisplayPort | Vertical Thru Hole | | View |
| DPC-M-SD-CS1 | Plug | DisplayPort | Right Angle Surface Mount | | View |
| DPC-M-SD-CS1-NL | Plug | DisplayPort | Right Angle Surface Mount | | View |
| DPC-M-SD-M2-L | Plug | DisplayPort | Right Angle Surface Mount | | View |
| DPD-DP-20S-HDMI19S-H | Receptacle | DisplayPort / HDMI Stacked Combo | Right Angle Thru Hole | | View |
| MDPC-S-RA | Receptacle | Mini DisplayPort | Right Angle Thru Hole | | View |
| MDPC-S-RA-KT-TR | Receptacle | Mini DisplayPort | Right Angle Thru Hole | Mylar Tape | View |
| MDPC-S-VT-PCB | Receptacle | Mini DisplayPort | Straddle Mount | | View |

## DISPLAYPORT PART NUMBER CONFIGURATION

**DPC - S - RA - SMT**

| SERIES | PORTS | ENTRY ANGLE | MOUNTING | OPTIONS: |
|---|---|---|---|---|
| **DPC-M** = *DisplayPort Male*<br>**DPC-F** = *DisplayPort Female* | **S** = *Single* | **RA** = *Right Angle* | **BLANK** = *Thru-Hole*<br>**SMT** = *Surface Mount*<br>**TSMT** = *True Surface Mount* | *Add designator(s) to end of part number*<br>**MF** = *Mounting Flange*<br>**BL** = *Board Lock*<br>**P** = *Pegs*<br>**NL** = *No Latch*<br>**L** = *Latch*<br>**NR** = *No Rib*<br>**T/R** = *Tape and Reel Packaging* |

## MINI DISPLAYPORT PART NUMBER CONFIGURATION

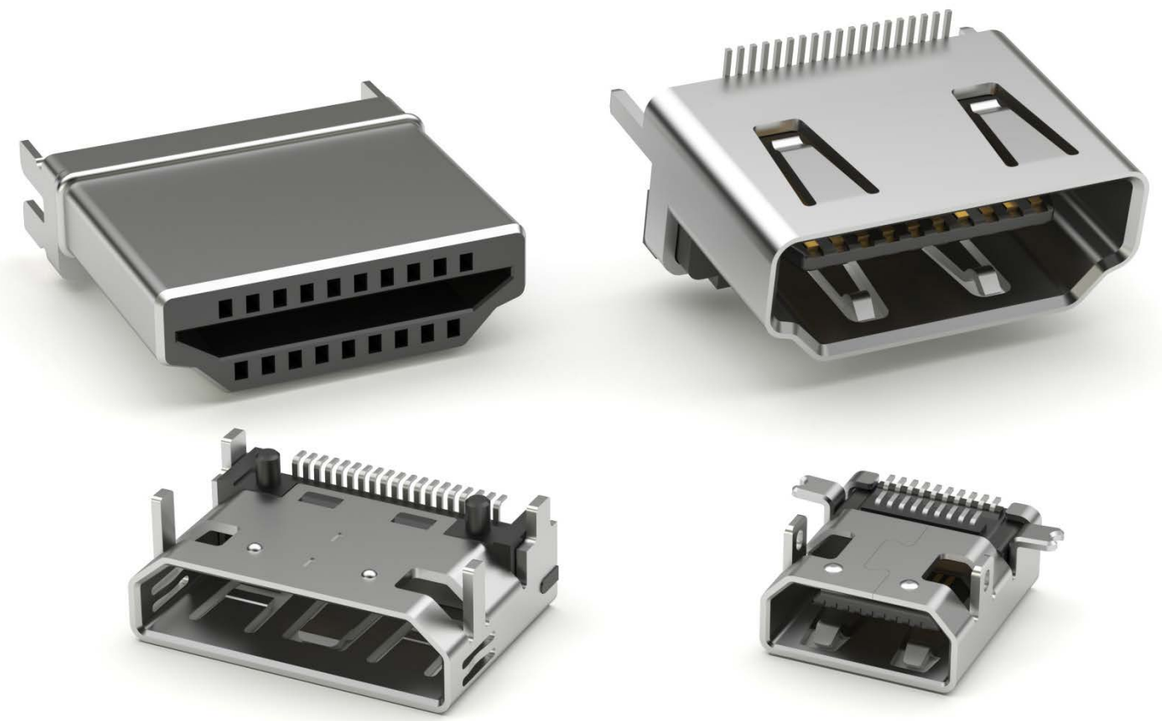
**MDPC - S - RA**

| SERIES | PORTS | ENTRY ANGLE | OPTIONS: |
|---|---|---|---|
| **MDPC** = *Mini DisplayPort Connector*<br>**MDPC-PLUG** = *Mini DisplayPort Plug* | **S** = *Single*<br>*Blank for plug* | **RA** = *Right Angle*<br>**VT** = *Vertical*<br>*Blank for plug* | *Add designator(s) to end of part number*<br>**KT** = *Mylar*<br>**MF** = *Mounting Flange*<br>**PCB** = *PCB Mount*<br>**T/R** = *Tape and Reel Packaging* |

# HDMI Connectors

HDMI, MINI & MICRO HDMI

High Definition Multimedia Interface (HDMI) connectors and cable assemblies are a series of products that provide an uncompressed digital link between video and audio in a single digital interface connection. Typically they are used with digital versatile (DVD) players, digital television (DVI), set top boxes and other audio/visual devices to consolidate interfaces and eliminate multiple cable assemblies. HDMI connectors are small, easy to use interconnects that can carry up to 5 Gbps of combined video and audio in a single connector/cable.



## FEATURES & SPECIFICATIONS

### FEATURES:
Sturdy, industry compatible design
Eliminates multiple connectors and cables
Up to 5 Gbps in single interface
Variety of mounting styles
Fully shielded for ESD protection
Compact 0.50mm (.019") pitch SMT design

### MATING CONNECTORS:
All industry standard HDMI connectors.

### PACKAGING:
Anti ESD plastic trays or Tubes

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Insulator: Hi-Temperature thermoplastic, glass filled, rated UL94V-0
Insulator Color: Black
Shell: Phosphor Bronze, Nickel plated
Contacts: Phosphor Bronze

### Plating:
Gold over nickel underplate on mating area, tin over
copper underplate on tails

### Electrical:
Operating Voltage: 30V AC
Current Rating: 0.5 Amps Max.
Contact Resistance: 10 mΩ Max.
Insulation Resistance: 100 MΩ Min.
Dielectric Withstanding Voltage: 300V AC for 1 Minute

### Mechanical:
Insertion force: 10.0 lbs max.
Withdrawal force: 2.2 lbs min.

### Temperature Rating:
Operation Temperature: -55°C ~ +85°C

## PART NUMBER CONFIGURATION

**HDMI - D - RA - 1 - MF**

| SERIES | PORTS | ENTRY ANGLE | MOUNTING | OPTIONS: |
|---|---|---|---|---|
| **HDMI** = *HDMI*<br>**MHDMI** = *Mini HDMI*<br>**MCHDMI** = *Micro HDMI* | **S** = *Single*<br>**D** = *Dual*<br>**M** = *?*<br>**PLUG** = *Plug* | **RA** = *Right Angle* | **1** = *Thru-Hole*<br>**SMT** = *Surface Mount*<br>**TSMT** = *True Surface Mount* | *Add designator(s) to end of part number*<br>**15** = *15 µin gold plating in contact area*<br>**MF** = *Mounting Flange*<br>**R** = *Reverse Layout*<br>**WPH** = *Waterproof* |

| PART NUMBER | GENDER | VERSION | MOUNTING ORIENTATION | OPTIONS | PORTS | PRODUCT DATA |
|---|---|---|---|---|---|---|
| HDMI-D-RA-1-MF | Receptacle | HDMI | Right Angle Thru Hole | Mounting Flange | Dual Port | View |
| HDMI-F-S-WPH | Receptacle | HDMI | | Waterproof | Single Port | View |
| HDMI-M-S-WPH | Receptacle | HDMI | | Waterproof | Single Port | View |
| HDMI-PLUG-OM3 | Plug | HDMI | Straddle Mount | | | View |
| HDMI-PLUG-OM7 | Plug | HDMI | Straddle Mount | | | View |
| HDMI-S-RA-1 | Receptacle | HDMI | Right Angle Thru Hole | | Single Port | View |
| HDMI-S-RA-1-SMT-03B-15 | Receptacle | HDMI | Right Angle Surface Mount | | Single Port | View |
| HDMI-S-RA-SMT | Receptacle | HDMI | Right Angle Surface Mount | | Single Port | View |
| HDMI-S-RA-SMT-A-TR | Receptacle | HDMI | Right Angle Surface Mount | | Single Port | View |
| HDMI-S-RA-SMT-MF | Receptacle | HDMI | Right Angle Surface Mount | Mounting Flange | Single Port | View |
| HDMI-S-V-1-SM | Receptacle | HDMI | Right Angle Thru Hole | | Single Port | View |
| HDMI-S-V-1-SMT | Receptacle | HDMI | Right Angle Surface Mount | | Single Port | View |
| HDMI21-S-RA-SMT-TR | Receptacle | HDMI 2.1 | Right Angle Surface Mount | | Single Port | View |
| MCHDMI-PLUG-OM1 | Plug | Micro HDMI | | | | View |
| MCHDMI-PLUG-OM2 | Plug | Micro HDMI | Straddle Mount | | | View |
| MCHDMI-S-RA-1-SMT | Receptacle | Micro HDMI | Right Angle Surface Mount | | Single Port | View |
| MCHDMI-S-RA-2-SMT | Receptacle | Micro HDMI | Right Angle Surface Mount | | Single Port | View |
| MHDMI-PLUG-OM | Plug | Mini HDMI | | | | View |
| MHDMI-PLUG-OM3 | Plug | Mini HDMI | | | | View |
| MHDMI-S-RA-SMT-B-TR | Receptacle | Mini HDMI | Right Angle Surface Mount | | Single Port | View |

# HDMI 2.1 Connector and Cables

Adam Tech's Ultra High Speed HDMI™ 2.1 connector and cables provide uncompressed 8K video with HDR, and support bandwidth speeds up to 48 Gbps. They also support 4K video, eARC (Enhanced Audio Return Channel), VRR (Variable Refresh Rate), ALLM (Auto Low Latency Mode), QFT (Quick Frame Transport), and QMS (Quick Media Switching). The cables are available in lengths of 3ft, 6ft, 10ft, and 16.5ft.



## FEATURES & SPECIFICATIONS

### FEATURES:

Connector: HDMI A 2.1 receptacle
Double ended HDMI A 2.1 plugs
8K UHD (7680 × 4320) at 60Hz
4K UHD (3840 × 2160) at 120Hz
Supports speeds up to 48 Gbps
Low EMI interference
Top quality audio with eARC
Enhanced gaming capabilities with VRR, ALLM, and QFT
Smooth frame rate transitions with QMS
Multiple cable lengths

### APPLICATIONS:

Audio/video data transfer
Televisions
Gaming consoles
DVD/Blu-ray/Ultra HD players
Media streaming devices
Cable boxes
Computers
Entertainment systems

### SPECIFICATIONS:

#### Material:

Housing: Hi-temp thermoplastic, rated UL 94V-0
Housing color: Black
Contacts: Brass
Shell: Brass, nickel plated

#### Plating:

Contact area: Gold flash over nickel underplate
Solder tails: Tin over nickel underplate

#### Electrical:

Contact resistance: 30 mohms max
Insulation resistance: 100 Mohms min
Dielectric withstanding voltage: 300 VAC

#### Mechanical:

Insertion force: 4.5Kgf max
Withdrawal force: 1.0kgf to 4.0kgf
Durability: 10,000 cycles

## Connector

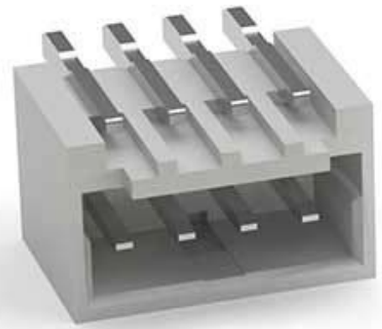
| PART NUMBER | GENDER | VERSION | MOUNTING ORIENTATION | PORTS | PRODUCT DATA |
|---|---|---|---|---|---|
| HDMI21-S-RA-SMT-TR | Receptacle | HDMI 2.1 | Right Angle Surface Mount | Single Port | View |

## Cable Assemblies

| PART NUMBER | DESCRIPTION | LENGTH | COLOR | PRODUCT DATA |
|---|---|---|---|---|
| CA-HDMI21-AM-AM-10FT | HDMI 2.1 Male to HDMI 2.1 Male | 10 Foot | Black | View |
| CA-HDMI21-AM-AM-16.5FT | HDMI 2.1 Male to HDMI 2.1 Male | 16.5 Foot | Black | View |
| CA-HDMI21-AM-AM-3FT | HDMI 2.1 Male to HDMI 2.1 Male | 3 Foot | Black | View |
| CA-HDMI21-AM-AM-6FT | HDMI 2.1 Male to HDMI 2.1 Male | 6 Foot | Black | View |

# Miniature Disconnecting Wire to Board Connectors and Systems

Adam Tech multiple pitch Headers and Housings are a matched set of Crimp Wire Housings and PCB mounted Shrouded Headers available in Straight, Right Angle or SMT orientation. Available pitches are .031", .039", .047", .049", .059", .079" and .098" centerlines. Offered in various popular industry standard styles they provide a lightweight, fine pitched, polarized, high reliability connection system.

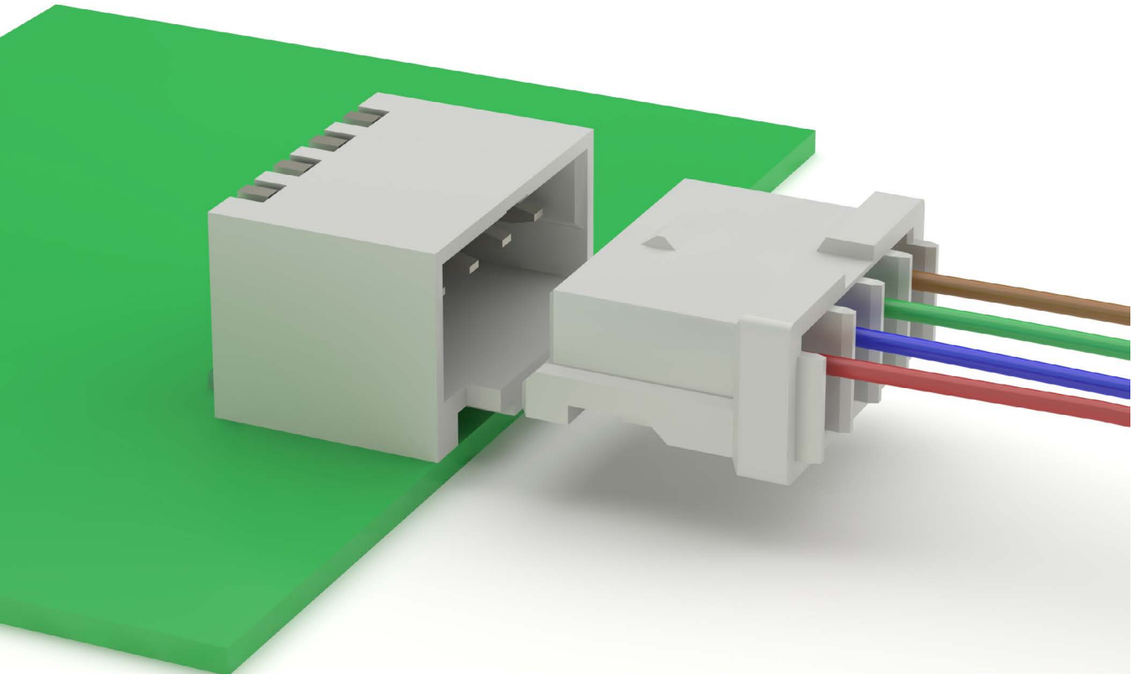












## FEATURES & SPECIFICATIONS

### FEATURES:
Multiple pitches and configurations
Matched Housing & Header system
Straight, Right Angle or SMT Headers
Sure fit, Fine Pitched & Polarized

### MATING CONNECTORS:
Each set has a male and female mate

### SPECIFICATIONS:

### Material:
Insulator:
Thru-hole: PBT, glass reinforced, rated UL94V-0
SMT: Nylon 46 or 6T, rated UL94V-0
Contacts: Brass

### Plating:
Tin over copper underplate overall

### Electrical:
Operating voltage: 100V AC max.
Current rating: 0.5 - 3 Amps max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 800V AC for 1 minute

### Mechanical:
Insertion force: 1.28 lbs max
Withdrawal force: 0.180 lbs min.

### Temperature Rating:
Operating temperature range: -25°C to +85°C

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

## FEATURES & SPECIFICATIONS

### FEATURES:
.031” [0.8mm] pitch
Multiple positions and configurations
Matched Housing & Header system
Straight, Right Angle or SMT Headers
Sure fit, Fine Pitched & Polarized

### MATING CONNECTORS:
Each set has a male and female mate

### SPECIFICATIONS:

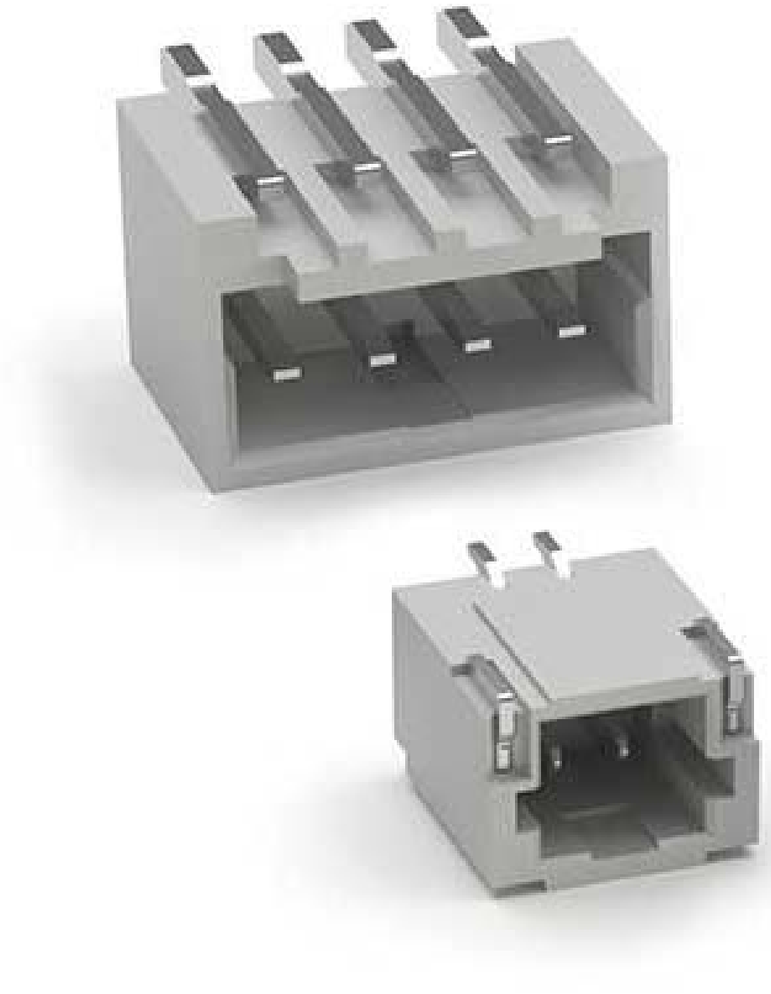
### Material:
Insulator:
Thru-hole: PBT, glass reinforced, rated UL94V-0
SMT: Nylon 46 or 6T, rated UL94V-0
Contacts: Brass

### Plating:
Gold over Nickel underplate overall

### Electrical:
Operating voltage: 50V AC max.
Current rating: 0.5 Amps max.
Insulation resistance: 100 MΩ min.
Dielectric withstanding voltage: 200V AC for 1 minute

### Temperature Rating:
Operating temperature range: -25°C to +85°C

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053



## PART NUMBER CONFIGURATION

| 08SH - | B - | 4 - | GR - | SMT |
|---|---|---|---|---|
| **SERIES** | **BODY STYLE** | **POSITIONS** | **PIN ANGLE** | **OPTIONS:** |
| **08SH** = *0.80mm Single Row* | **A** = *Body Style "A"*<br>**B** = *Body Style "B"*<br>**C** = *Body Style "C"* | **02** *Thru* **20** | **GR** = *Gold Straight PCB*<br>**GS** = *Gold Right Angle PCB* | *Add designator(s) to end of part number:*<br>**SMT** = *Surface mount leads with Hi-Temp insolator*<br>**NP** = *No Pegs*<br>**NK** = *No Kink* |

| PART NUMBER | PITCH | BODY STYLE | MOUNTING ORIENTATION | MOUNTING | PLATING | NO. OF ROWS | PACKAGING | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|
| 08SH-A-XX-GS-SMT-PP-TR | .031" [0.80mm] | A | Vertical | Surface Mount | Gold | 1 | Tape & Reel | View |
| 08SH-A-XX-TR-SMT-TR | .031" [0.80mm] | A | Right Angle | Through Hole | Tin | 1 | Tape & Reel | View |
| 08SH-A-XX-TS-SMT | .031" [0.80mm] | A | Vertical | Surface Mount | Tin | 1 | Tube | View |
| 08SH-A-XX-TS-SMT-PP-TR | .031" [0.80mm] | A | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 08SH-B-XX-TR-SMT-TR | .031" [0.80mm] | B | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 08SH-B-XX-TS-SMT-TR | .031" [0.80mm] | B | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 08SH-C-XX-GR-SMT | .031" [0.80mm] | C | Right Angle | Surface Mount | Gold | 1 | Tube | View |
| 08SH-C-XX-TR-SMT | .031" [0.80mm] | C | Right Angle | Surface Mount | Tin | 1 | Tube | View |

## FEATURES & SPECIFICATIONS

### FEATURES:
.031" [0.8mm] pitch
Multiple positions and configurations
Gold or tin plated crimp terminals
Matched Housing & Header system
Straight, Right Angle or SMT Headers
Sure fit, Fine Pitched & Polarized

### MATING CONNECTORS:
Each set has a male and female mate

### SPECIFICATIONS:

**Material:**
Insulator:
Thru-hole: PBT, glass reinforced, rated UL94V-0
SMT: Nylon 46 or 6T, rated UL94V-0
Contacts: Brass

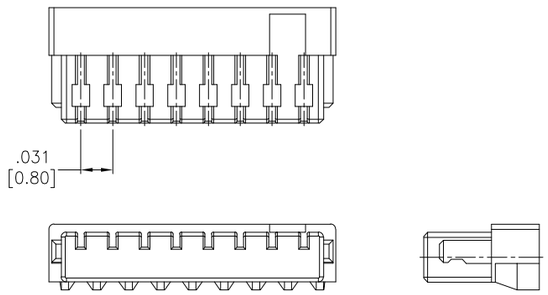
**Plating:**
Gold over Nickel underplate overall

**Electrical:**
Operating voltage: 50V AC max.
Current rating: 0.5 Amps max.
Insulation resistance: 100 MΩ min.
Dielectric withstanding voltage: 200V AC for 1 minute

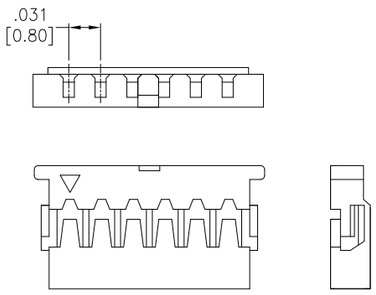
**Temperature Rating:**
Operating temperature range: -25°C to +85°C

**APPROVALS AND CERTIFICATIONS:**
UL Recognized File no. E224053

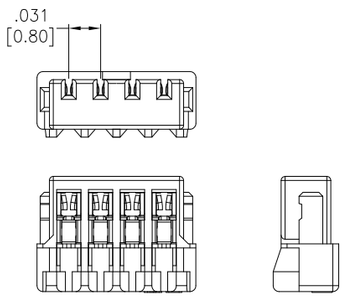
### 08CH HOUSINGS




08CH-A-IDC




08CH-C




08CH-B-IDC

## CRIMP HOUSING PART NUMBER CONFIGURATION

**08CH - B - 4 - IDC**

| SERIES | BODY STYLE | POSITIONS | OPTIONS: |
|---|---|---|---|
| **08CH** = *0.80mm Single Row* | **A** = *Body Style "A"*<br>**B** = *Body Style "B"*<br>**C** = *Body Style "C"* | **02** *Thru* **20** | *Add designator(s) to end of part number:*<br>**IDC** = *IDC Type*<br>**G** = *Gold plated* |

## CRIMP CONTACT PART NUMBER CONFIGURATION

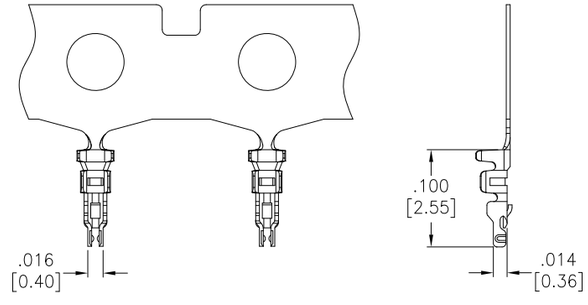
**08CTX - R - G**

| SERIES | PACKAGING | OPTIONS: |
|---|---|---|
| **08CTX** = *0.80mm Body Style Contact*<br>*Replace X with housing body style* | **R** = *Piece Reel* | *Add designator(s) to end of part number:*<br>**G** = *Gold plated* |

## HOUSINGS

| PART NUMBER | PITCH | BODY STYLE | NO. OF ROWS | TERMINATION | PRODUCT DATA |
|---|---|---|---|---|---|
| 08CH-A-XX-G-IDC | .031" [0.80mm] | A | 1 | IDC | View |
| 08CH-B-XX-G-IDC | .031" [0.80mm] | B | 1 | IDC | View |
| 08CH-C-XX | .031" [0.80mm] | C | 1 | Crimp | View |

### 08CTC CRIMP CONTACT




## CRIMP CONTACT

| PART NUMBER | PITCH | BODY STYLE | PLATING | PRODUCT DATA |
|---|---|---|---|---|
| 08CTC-G-R | .031" [0.80mm] | C | Gold | |

## FEATURES & SPECIFICATIONS

### FEATURES:
.039" [1.0mm] pitch
Multiple positions and configurations
Matched Housing & Header system
Straight, Right Angle or SMT Headers
Sure fit, Fine Pitched & Polarized

### MATING CONNECTORS:
Each set has a male and female mate

### SPECIFICATIONS:

### Material:
Insulator:
Thru-hole: PBT, glass reinforced, rated UL94V-0
SMT: Nylon 46 or 6T, rated UL94V-0
Contacts: Brass

### Plating:
Tin over copper underplate overall

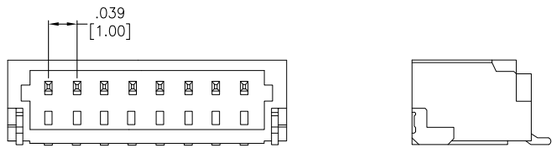
### Electrical:
Operating voltage: 50V AC max.
Current rating: 1 Amps max.
Insulation resistance: 100 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

### Temperature Rating:
Operating temperature range: -25°C to +85°C

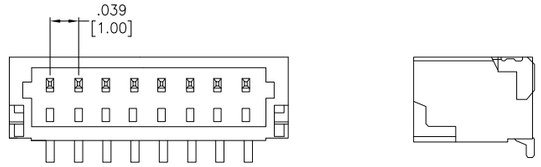
### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

## 1SH

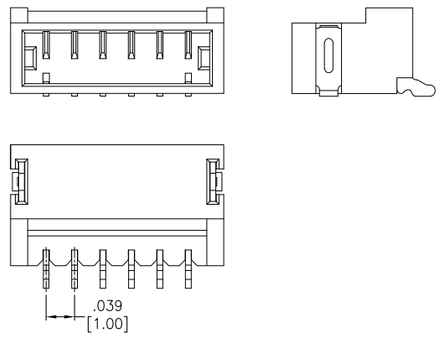
### BODY STYLE A RIGHT ANGLE SMT



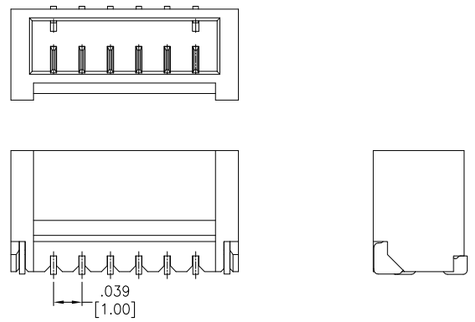

### BODY STYLE A STRAIGHT SMT



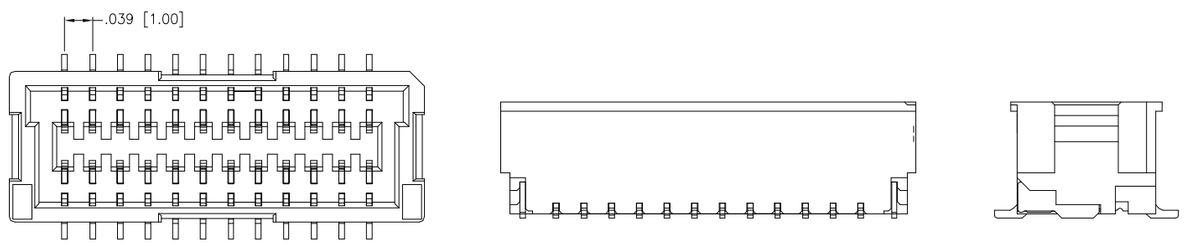

### BODY STYLE C1 RIGHT ANGLE SMT




### BODY STYLE C1 STRAIGHT SMT




## 1SHD-B




## PART NUMBER CONFIGURATION

**1SH - B - 4 - GS - SMT**

| SERIES | BODY STYLE | POSITIONS | PIN ANGLE | OPTIONS: |
|---|---|---|---|---|
| **1SH** = *1.00mm Single Row*<br>**1SHD** = *1.00mm Dual Row* | **A** = *Body Style "A"*<br>**B** = *Body Style "B"*<br>**C** = *Body Style "C"*<br>**C1** = *Body Style "C1"* | **02** *Thru* **20** | **GS** = *Gold Straight PCB*<br>**GR** = *Gold Right Angle PCB*<br>**TS** = *Tin Straight PCB*<br>**TR** = *Tin Right Angle PCB* | *Add designator(s) to end of part number:*<br>**SMT** = *Surface mount leads with Hi-Temp insolator*<br>**PP** = *Pick and Place Cap*<br>**T/R** = *Tape and Reel Packaging* |

| PART NUMBER | PITCH | BODY STYLE | MOUNTING ORIENTATION | MOUNTING | PLATING | NO. OF ROWS | PACKAGING | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|
| 1SH-A-XX-GR-SMT-TR | .039" [1.00mm] | A | Right Angle | Surface Mount | Gold | 1 | Tape & Reel | View |
| 1SH-A-XX-GS-SMT-TR | .039" [1.00mm] | A | Vertical | Surface Mount | Gold | 1 | Tape & Reel | View |
| 1SH-A-XX-MTR-SMT | .039" [1.00mm] | A | Right Angle | Surface Mount | Tin | 1 | Tube | View |
| 1SH-A-XX-MTR-SMT-TR | .039" [1.00mm] | A | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 1SH-A-XX-MTS-SMT-PP-TR | .039" [1.00mm] | A | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 1SH-A-XX-MTS-SMT-TR | .039" [1.00mm] | A | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 1SH-A-XX-TR-SMT | .039" [1.00mm] | A | Right Angle | Surface Mount | Tin | 1 | Tube | View |
| 1SH-A-XX-TR-SMT-TR | .039" [1.00mm] | A | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 1SH-A-XX-TS-SMT | .039" [1.00mm] | A | Vertical | Surface Mount | Tin | 1 | Tube | View |
| 1SH-A-XX-TS-SMT-TR | .039" [1.00mm] | A | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 1SH-A1-XX-TR-SMT-TR | .039" [1.00mm] | A | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 1SH-A1-XX-TS-SMT-PP-TR | .039" [1.00mm] | A | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 1SH-B-XX-TR-SMT | .039" [1.00mm] | B | Right Angle | Surface Mount | Tin | 1 | Tube | View |

## FEATURES & SPECIFICATIONS

### FEATURES:
.039" [1.0mm] pitch
Multiple positions and configurations
Gold or tin plated crimp terminals
Matched Housing & Header system
Straight, Right Angle or SMT Headers
Sure fit, Fine Pitched & Polarized

### MATING CONNECTORS:
Each set has a male and female mate

### SPECIFICATIONS:

**Material:**
Insulator:
Thru-hole: PBT, glass reinforced, rated UL94V-0
SMT: Nylon 46 or 6T, rated UL94V-0
Contacts: Brass

**Plating:**
Tin over copper underplate overall

**Electrical:**
Operating voltage: 50V AC max.
Current rating: 1 Amps max.
Insulation resistance: 100 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

**Temperature Rating:**
Operating temperature range: -25°C to +85°C

**APPROVALS AND CERTIFICATIONS:**
UL Recognized File no. E224053

## CRIMP HOUSING PART NUMBER CONFIGURATION

**1CH - B - 4 - G**

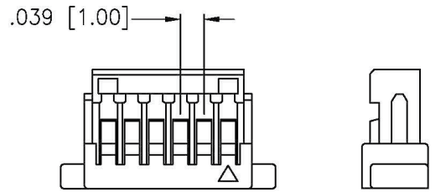
| SERIES | BODY STYLE | POSITIONS | OPTIONS: |
|---|---|---|---|
| **1CH** = *1.00mm Single Row*<br>**1CHD** = *1.00mm Dual Row* | **A** = *Body Style "A"*<br>**B** = *Body Style "B"*<br>**C** = *Body Style "C"*<br>**Z** = *Body Style "Z"*<br>**Z1** = *Body Style "Z1"* | **02** *Thru* **20** | *Add designator(s) to end of part number:*<br>**NE** = *No Ears* |

## CRIMP CONTACT PART NUMBER CONFIGURATION

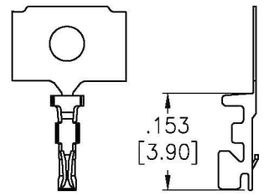
**1CTX - R - G**

| SERIES | PACKAGING | OPTIONS: |
|---|---|---|
| **1CTX** = *1.00mm Body Style Contact*<br>**1CTDX** = *1.00mm Body Style Contact*<br>*Replace X with housing body style* | **R** = *Piece Reel* | *Add designator(s) to end of part number:*<br>**G** = *Gold plated* |

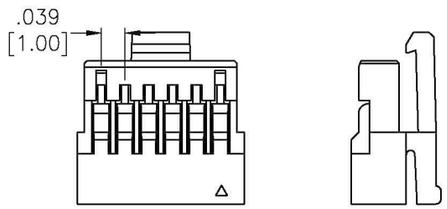
## 1CH HOUSINGS AND 1CT CRIMPS



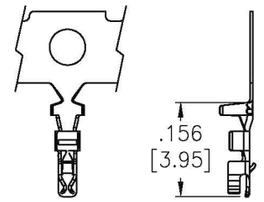

1CH-A



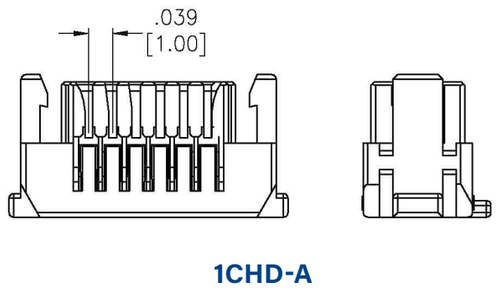

1CTA-R



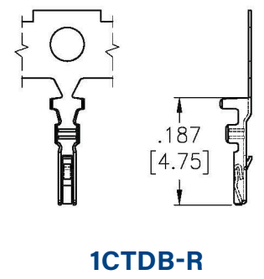

1CH-C




1CTC-R




1CHD-A




1CTDB-R

## HOUSINGS

| PART NUMBER | PITCH | BODY STYLE | NO. OF ROWS | TERMINATION | PRODUCT DATA |
|---|---|---|---|---|---|
| 1CH-A-XX | .039" [1.00mm] | A | 1 | Crimp | View |
| 1CH-A-XX-NE | .039" [1.00mm] | A | 1 | Crimp | View |
| 1CH-Z-XX | .039" [1.00mm] | Z | 2 | Crimp | View |
| 1CHD-B-XX | .039" [1.00mm] | B | 2 | Crimp | View |

## CRIMP CONTACTS

| PART NUMBER | PITCH | STYLE | PLATING | PRODUCT DATA |
|---|---|---|---|---|
| 1CTA-G-R | .039" [1.00mm] | A | Gold | View |
| 1CTA-MT-R | .039" [1.00mm] | A | Tin | View |
| 1CTA-R | .039" [1.00mm] | A | Tin | View |
| 1CTDB-G-R | .039" [1.00mm] | B | Gold | View |
| 1CTDB-R | .039" [1.00mm] | B | Tin | View |

# Miniature Disconnecting Wire to Board Connectors and Systems

.049” [1.25MM] HEADERS, SINGLE & DUAL ROW

## FEATURES & SPECIFICATIONS

### FEATURES:
.049” [1.25mm] pitch
Multiple positions and configurations
Matched Housing & Header system
Straight, Right Angle or SMT Headers
Sure fit, Fine Pitched & Polarized

### MATING CONNECTORS:
Each set has a male and female mate

### SPECIFICATIONS:

### Material:
Insulator:
Thru-hole: PBT, glass reinforced, rated UL94V-0
SMT: Nylon 46 or 6T, rated UL94V-0
Contacts: Brass

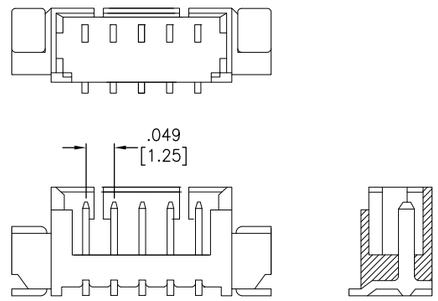
### Plating:
Tin over copper underplate overall

### Electrical:
Operating voltage: 50 - 150V AC max.
Current rating: 1 Amp max.
Insulation resistance: 100 MΩ min.
Contact Resistance: 20 mohms max.
Dielectric withstanding voltage: 500V AC for 1 minute

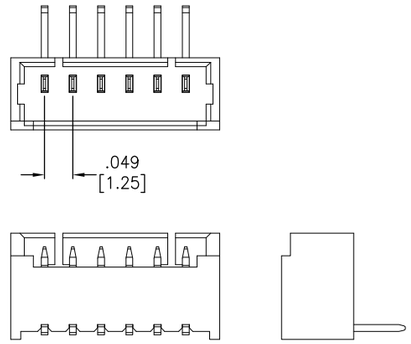
### Temperature Rating:
Operating temperature range: -25°C to +85°C

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

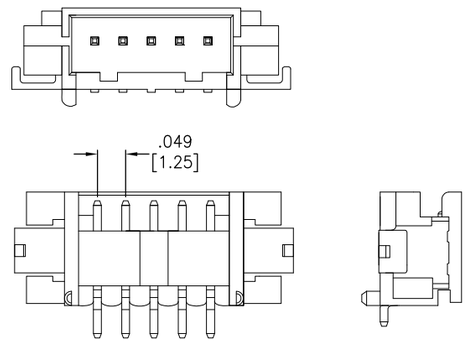
### 125SH-A STRAIGHT SMT



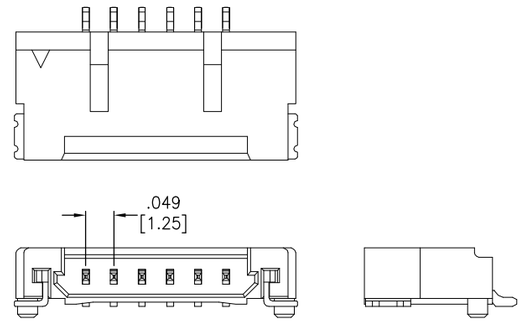

### 125SH-B RIGHT ANGLE




### 125SH-C RIGHT ANGLE SMT




### 125SH-D RIGHT ANGLE




## PART NUMBER CONFIGURATION

**125SH- C - 4 - TS - NP**

| SERIES | BODY STYLE | POSITIONS | PIN ANGLE | OPTIONS: |
|---|---|---|---|---|
| **125SH** = *1.25mm Single Row*<br>**125SHD** = *1.25mm Dual Row* | **A** = *Body Style "A"*<br>**A1** = *Body Style "A1"*<br>**A2** = *Body Style "A2"*<br>**A3** = *Body Style "A3"*<br>**B** = *Body Style "B"*<br>**BA** = *Body Style "BA"*<br>**B1** = *Body Style "B1"*<br>**B2** = *Body Style "B2"*<br>**B3** = *Body Style "B3"*<br>**C** = *Body Style "C"*<br>**C1** = *Body Style "C1"*<br>**D** = *Body Style "D"*<br>**E** = *Body Style "E"*<br>**E1** = *Body Style "E1"*<br>**F** = *Body Style "F"*<br>**G** = *Body Style "G"*<br>**G1** = *Body Style "G1"*<br>**H** = *Body Style "H"*<br>**K** = *Body Style "K"*<br>**M** = *Body Style "M"*<br>**N** = *Body Style "N"* | **02** *Thru* **15** | **GS** = *Gold Straight PCB*<br>**GR** = *Gold Right Angle PCB*<br>**TS** = *Tin Straight PCB*<br>**TR** = *Tin Right Angle PCB* | *Add designator(s) to end of part number:*<br>**SMT** = *Surface mount leads with Hi-Temp insolator*<br>**PP** = *Pick and Place Cap*<br>**T/R** = *Tape and Reel Packaging* |

| PART NUMBER | PITCH | BODY STYLE | MOUNTING ORIENTATION | MOUNTING | PLATING | NO. OF ROWS | PACKAGING | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|
| 125SH-A-XX-TR-SMT | .049" [1.25mm] | A | Right Angle | Surface Mount | Tin | 1 | Tube | View |
| 125SH-A-XX-TR-SMT-TR | .049" [1.25mm] | A | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 125SH-A-XX-TS-SMT | .049" [1.25mm] | A | Vertical | Surface Mount | Tin | 1 | Tube | View |
| 125SH-A-XX-TS-SMT-TR | .049" [1.25mm] | A | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 125SH-B-09-TS-SMT-PP-TR | .049" [1.25mm] | B | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 125SH-B-XX-MTR-SMT | .049" [1.25mm] | B | Right Angle | Surface Mount | Tin | 1 | Tube | View |
| 125SH-B-XX-MTR-SMT-TR | .049" [1.25mm] | B | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 125SH-B-XX-MTS-SMT-TR | .049" [1.25mm] | B | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 125SH-B-XX-TR | .049" [1.25mm] | B | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 125SH-B-XX-TR-SMT | .049" [1.25mm] | B | Right Angle | Surface Mount | Tin | 1 | Tube | View |
| 125SH-B-XX-TR-SMT-BK-HF-TR | .049" [1.25mm] | B | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 125SH-B-XX-TR-SMT-PB-TR | .049" [1.25mm] | B | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 125SH-B-XX-TR-SMT-TR | .049" [1.25mm] | B | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 125SH-B-XX-TS | .049" [1.25mm] | B | Vertical | Through Hole | Tin | 1 | Tube | View |
| 125SH-B-XX-TS-118 | .049" [1.25mm] | B | Vertical | Through Hole | Tin | 1 | Tube | View |
| 125SH-B-XX-TS-SMT | .049" [1.25mm] | B | Vertical | Surface Mount | Tin | 1 | Tube | View |
| 125SH-B-XX-TS-SMT-PB-TR | .049" [1.25mm] | B | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 125SH-B-XX-TS-SMT-PP-TR | .049" [1.25mm] | B | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |

| PART NUMBER | PITCH | BODY STYLE | MOUNTING ORIENTATION | MOUNTING | PLATING | NO. OF ROWS | PACKAGING | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|
| 125SH-B-XX-TS-SMT-TR | .049" [1.25mm] | B | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 125SH-B1-XX-MTS-SMT-HF | .049" [1.25mm] | B | Vertical | Surface Mount | Tin | 1 | Tube | View |
| 125SH-B1-XX-TS-SMT-HF-TR | .049" [1.25mm] | B | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 125SH-B2-XX-TS-SMT-PP-TR | .049" [1.25mm] | B | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 125SH-B2-XX-TS-SMT-TR | .049" [1.25mm] | B | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 125SH-C-XX-TR | .049" [1.25mm] | C | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 125SH-C-XX-TR-SMT-TR | .049" [1.25mm] | C | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 125SH-C-XX-TS | .049" [1.25mm] | C | Vertical | Through Hole | Tin | 1 | Tube | View |
| 125SH-C-XX-TS-SMT-TR | .049" [1.25mm] | C | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 125SH-C1-XX-GS-SMT-NP-TR | .049" [1.25mm] | C | Vertical | Surface Mount | Gold | 1 | Tape & Reel | View |
| 125SH-D-XX-TR-SMT | .049" [1.25mm] | D | Right Angle | Surface Mount | Tin | 1 | Tube | View |
| 125SH-D-XX-TR-SMT-TR | .049" [1.25mm] | D | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 125SH-E-XX-GR-SMT-TR | .049" [1.25mm] | E | Right Angle | Surface Mount | Gold | 1 | Tape & Reel | View |
| 125SH-F-09-XS-SM | .049" [1.25mm] | F | Vertical | Through Hole | Tin or Gold | 1 | Tube | View |
| 125SH-F-15-XS-SM | .049" [1.25mm] | F | Vertical | Through Hole | Tin or Gold | 1 | Tube | View |
| 125SH-G-XX-TR-SMT-TR | .049" [1.25mm] | G | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 125SH-G1-XX-GR-SMT | .049" [1.25mm] | G | Right Angle | Surface Mount | Gold | 1 | Tube | View |
| 125SH-G1-XX-TR-SMT | .049" [1.25mm] | G | Right Angle | Surface Mount | Tin | 1 | Tube | View |
| 125SH-H-XX-GR-SMT-TR | .049" [1.25mm] | H | Right Angle | Surface Mount | Gold | 1 | Tape & Reel | View |
| 125SH-H-XX-SGR-SMT-TR | .049" [1.25mm] | H | Right Angle | Surface Mount | Gold | 1 | Tape & Reel | View |
| 125SH-H-XX-TR | .049" [1.25mm] | H | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 125SH-H-XX-TR-SMT-TR | .049" [1.25mm] | H | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 125SH-K-XX-TR-SMT | .049" [1.25mm] | K | Right Angle | Surface Mount | Tin | 1 | Tube | View |
| 125SH-K-XX-TR-SMT-TR | .049" [1.25mm] | K | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 125SH-K-XX-TS-SMT | .049" [1.25mm] | K | Vertical | Surface Mount | Tin | 1 | Tube | View |
| 125SH-K-XX-TS-SMT-PP-TR | .049" [1.25mm] | K | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 125SH-M-XX-TR | .049" [1.25mm] | M | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 125SHD-C1-XX-GS-SMT-PP-TR | .049" [1.25mm] | C | Vertical | Surface Mount | Gold | 2 | Tape & Reel | View |

# Miniature Disconnecting Wire to Board Connectors and Systems

.049” [1.25MM] WIRE HOUSING & CRIMP TERMINAL, SINGLE & DUAL ROW

## FEATURES & SPECIFICATIONS

### FEATURES:
.049” [1.25mm] pitch
Multiple positions and configurations
Gold or tin plated crimp terminals
Matched Housing & Header system
Straight, Right Angle or SMT Headers
Sure fit, Fine Pitched & Polarized

### MATING CONNECTORS:
Each set has a male and female mate

### SPECIFICATIONS:

**Material:**
Insulator:
Thru-hole: PBT, glass reinforced, rated UL94V-0
SMT: Nylon 46 or 6T, rated UL94V-0
Contacts: Brass

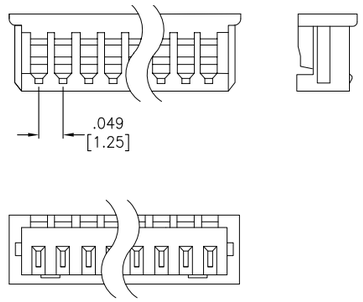
**Plating:**
Tin over copper underplate overall

**Electrical:**
Operating voltage: 50 - 150V AC max.
Current rating: 1 Amp max.
Insulation resistance: 100 MΩ min.
Contact Resistance: 20 mohms max.
Dielectric withstanding voltage: 500V AC for 1 minute

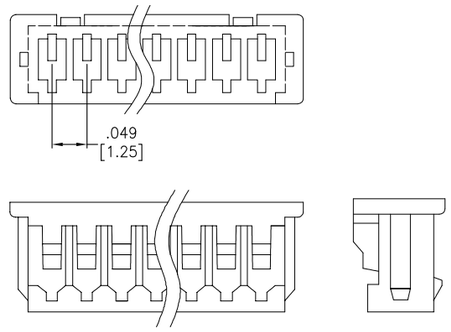
**Temperature Rating:**
Operating temperature range: -25°C to +85°C

**APPROVALS AND CERTIFICATIONS:**
UL Recognized File no. E224053

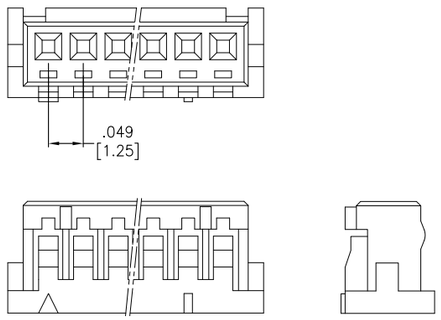
### 125CH-A



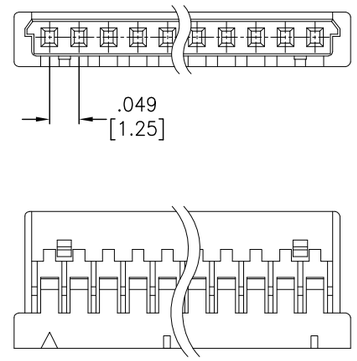

### 125CH-B




### 125CH-C




### 125CH-D




## CRIMP HOUSING PART NUMBER CONFIGURATION

**125CH- E - 4 - G**

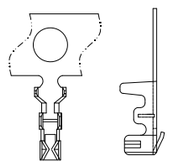
| SERIES | BODY STYLE | POSITIONS | OPTIONS: |
|---|---|---|---|
| **125CH** = *1.25mm Single Row*<br>**125CHD** = *1.25mm Dual Row* | **A** = *Body Style "A"*<br>**A1** = *Body Style "A1"*<br>**B** = *Body Style "B"*<br>**B1** = *Body Style "B1"*<br>**B3** = *Body Style "B3"*<br>**C** = *Body Style "C"*<br>**C1** = *Body Style "C1"*<br>**D** = *Body Style "D"*<br>**E** = *Body Style "E"*<br>**G** = *Body Style "G"*<br>**G1** = *Body Style "G1"*<br>**H** = *Body Style "H"*<br>**K** = *Body Style "K"*<br>**M** = *Body Style "M"* | **02** *Thru* **15** | *Add designator(s) to end of part number:*<br>**HF** = *Halogen Free* |

## CRIMP CONTACT PART NUMBER CONFIGURATION

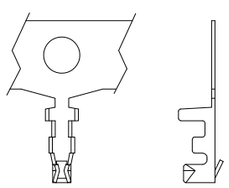
**125CTX - R - G**

| SERIES | PACKAGING | OPTIONS: |
|---|---|---|
| **125CTX** = *1.25mm Body Style Contact*<br>**125CTDX** = *1.25mm Body Style Contact*<br>*Replace X with housing body style* | **R** = *Piece Reel* | *Add designator(s) to end of part number:*<br>**G** = *Gold plated* |

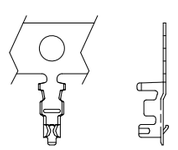
### 125CTA-R



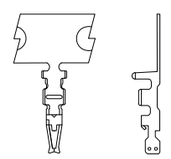
### 125CTB-R



### 125CTC-R



### 125CTD-R



## HOUSINGS

| PART NUMBER | PITCH | BODY STYLE | NO. OF ROWS | TERMINATION | PRODUCT DATA |
|---|---|---|---|---|---|
| 125CH-A-XX | .049" [1.25mm] | A | 1 | Crimp | View |
| 125CH-B-XX | .049" [1.25mm] | B | 1 | Crimp | View |
| 125CH-B-XX-BK-HF | .049" [1.25mm] | B | 1 | Crimp | View |
| 125CH-B1-XX-HF | .049" [1.25mm] | B | 1 | Crimp | View |
| 125CH-BL-XX | .049" [1.25mm] | B | 1 | Crimp | View |
| 125CH-C1-XX | .049" [1.25mm] | C | 1 | Crimp | View |
| 125CH-D-XX | .049" [1.25mm] | D | 1 | Crimp | View |
| 125CH-E-XX | .049" [1.25mm] | E | 1 | Crimp | View |
| 125CH-G-XX | .049" [1.25mm] | G | 1 | Crimp | View |
| 125CH-G1-XX | .049" [1.25mm] | G | 1 | Crimp | View |
| 125CH-H-XX | .049" [1.25mm] | H | 1 | Crimp | View |
| 125CH-K-XX | .049" [1.25mm] | K | 1 | Crimp | View |
| 125CH-M-XX | .049" [1.25mm] | M | 1 | Crimp | View |

## CRIMP CONTACTS

| PART NUMBER | PITCH | STYLE | PLATING | PRODUCT DATA |
|---|---|---|---|---|
| 125CTA-R | .049" [1.25mm] | A | Tin | View |
| 125CTB-R | .049" [1.25mm] | B | Tin | View |
| 125CTB1-R | .049" [1.25mm] | B | Tin | View |
| 125CTBL-R | .049" [1.25mm] | B | Tin | View |
| 125CTD-R | .049" [1.25mm] | D | Tin | View |
| 125CTD-R-G | .049" [1.25mm] | D | Gold | View |
| 125CTE-B-R | .049" [1.25mm] | E | Tin | View |
| 125CTG-B-G-R | .049" [1.25mm] | G | Gold | View |
| 125CTG1-G-R | .049" [1.25mm] | G | Gold | View |
| 125CTG1-R | .049" [1.25mm] | G | Tin | View |
| 125CTH-R | .049" [1.25mm] | H | Tin | View |
| 125CTK-R | .049" [1.25mm] | K | Tin | View |

## FEATURES & SPECIFICATIONS

### FEATURES:
.059” [1.5mm] pitch
Multiple positions and configurations
Matched Housing & Header system
Straight, Right Angle or SMT Headers
Sure fit, Fine Pitched & Polarized

### MATING CONNECTORS:
Each set has a male and female mate

### SPECIFICATIONS:

### Material:
Insulator:
Thru-hole: PBT, glass reinforced, rated UL94V-0
SMT: Nylon 46 or 6T, rated UL94V-0
Contacts: Brass

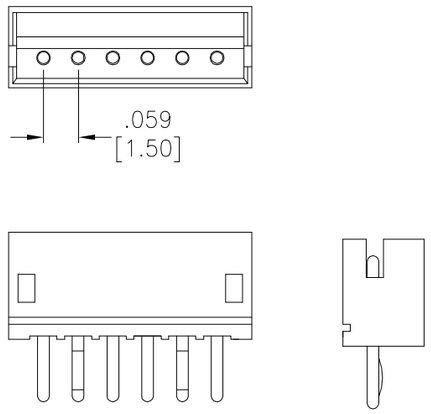
### Plating:
Tin over copper underplate overall

### Electrical:
Operating voltage: 100V AC max.
Current rating: 1 Amps max.
Insulation resistance: 500 MΩ min.
Contact Resistance: 20 mohms max.
Dielectric withstanding voltage: 500V AC for 1 minute

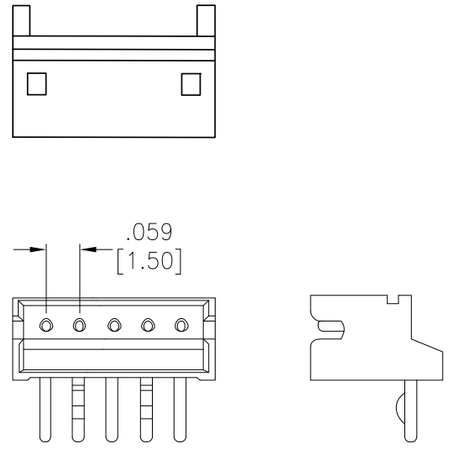
### Temperature Rating:
Operating temperature range: -25°C to +85°C

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

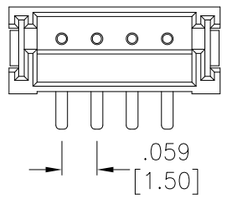
### 15SH VERTICAL



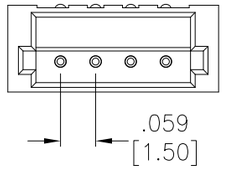

### 15SH R/A




### 15SH VERTICAL SMT




### 15SH R/A SMT




## PART NUMBER CONFIGURATION

| 15SH - | A - | 4 - | TR - | WT |
|---|---|---|---|---|
| **SERIES** | **BODY STYLE** | **POSITIONS** | **PIN ANGLE** | **OPTIONS:** |
| **15SH** = *1.50mm Single Row* | **A** = *Body Style "A"*<br>**B** = *Body Style "B"*<br>**B1** = *Body Style "B1"*<br>**B2** = *Body Style "B2"*<br>**B3** = *Body Style "B3"*<br>**C** = *Body Style "C"* | **02** *Thru* **15** | **GS** = *Gold Straight PCB*<br>**GR** = *Gold Right Angle PCB*<br>**TS** = *Tin Straight PCB*<br>**TR** = *Tin Right Angle PCB* | *Add designator(s) to end of part number:*<br>**SMT** = *Surface mount leads with Hi-Temp insolator*<br>**PP** = *Pick and Place Cap*<br>**T/R** = *Tape and Reel Packaging* |

| PART NUMBER | PITCH | BODY STYLE | MOUNTING ORIENTATION | MOUNTING | PLATING | NO. OF ROWS | PACKAGING | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|
| 15SH-A-XX-MTS-SMT-TR | .059" [1.50mm] | A | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 15SH-A-XX-TR | .059" [1.50mm] | A | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 15SH-A-XX-TR-BK | .059" [1.50mm] | A | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 15SH-A-XX-TR-SMT | .059" [1.50mm] | A | Right Angle | Surface Mount | Tin | 1 | Tube | View |
| 15SH-A-XX-TR-SMT-PT | .059" [1.50mm] | A | Right Angle | Surface Mount | Tin | 1 | Tube | View |
| 15SH-A-XX-TR-SMT-TR | .059" [1.50mm] | A | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 15SH-A-XX-TS | .059" [1.50mm] | A | Vertical | Through Hole | Tin | 1 | Tube | View |
| 15SH-A-XX-TS-BK | .059" [1.50mm] | A | Vertical | Through Hole | Tin | 1 | Tube | View |
| 15SH-A-XX-TS-SMT | .059" [1.50mm] | A | Vertical | Surface Mount | Tin | 1 | Tube | View |
| 15SH-A-XX-TS-SMT-PP | .059" [1.50mm] | A | Vertical | Surface Mount | Tin | 1 | Tube | View |
| 15SH-A-XX-TS-SMT-PP-TR | .059" [1.50mm] | A | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 15SH-A-XX-TS-SMT-TR | .059" [1.50mm] | A | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |

| PART NUMBER | PITCH | BODY STYLE | MOUNTING ORIENTATION | MOUNTING | PLATING | NO. OF ROWS | PACKAGING | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|
| 15SH-B-XX-MTR-SMT | .059" [1.50mm] | B | Right Angle | Surface Mount | Tin | 1 | Tube | View |
| 15SH-B-XX-TR-SMT | .059" [1.50mm] | B | Right Angle | Surface Mount | Tin | 1 | Tube | View |
| 15SH-B-XX-TR-SMT-TR | .059" [1.50mm] | B | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 15SH-B-XX-TS-SMT | .059" [1.50mm] | B | Vertical | Surface Mount | Tin | 1 | Tube | View |
| 15SH-B-XX-TS-SMT-PP-TR | .059" [1.50mm] | B | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 15SH-B-XX-TS-SMT-TR | .059" [1.50mm] | B | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 15SH-B1-XX-GR-SMT | .059" [1.50mm] | B | Right Angle | Surface Mount | Gold | 1 | Tube | View |
| 15SH-B1-XX-GS-SMT | .059" [1.50mm] | B | Vertical | Surface Mount | Gold | 1 | Tube | View |
| 15SH-C-XX-MTR-SMT-TR | .059" [1.50mm] | C | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 15SH-C-XX-MTS-SMT-PP-TR | .059" [1.50mm] | C | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 15SH-C-XX-TR-SMT-TR | .059" [1.50mm] | C | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 15SH-C-XX-TS-SMT-PP-TR | .059" [1.50mm] | C | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |

# Miniature Disconnecting Wire to Board Connectors and Systems

.059” [1.5MM] WIRE HOUSING & CRIMP TERMINAL

## FEATURES & SPECIFICATIONS

### FEATURES:
.059” [1.5mm] pitch
Multiple positions and configurations
Gold or tin plated crimp terminals
Matched Housing & Header system
Straight, Right Angle or SMT Headers
Sure fit, Fine Pitched & Polarized

### MATING CONNECTORS:
Each set has a male and female mate

### SPECIFICATIONS:

### Material:
Insulator:
Thru-hole: PBT, glass reinforced, rated UL94V-0
SMT: Nylon 46 or 6T, rated UL94V-0
Contacts: Brass

### Plating:
Tin over copper underplate overall

### Electrical:
Operating voltage: 100V AC max.
Current rating: 1 Amps max.
Insulation resistance: 500 MΩ min.
Contact Resistance: 20 mohms max.
Dielectric withstanding voltage: 500V AC for 1 minute

### Temperature Rating:
Operating temperature range: -25°C to +85°C

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

## CRIMP HOUSING PART NUMBER CONFIGURATION

**15CH - B - 4**

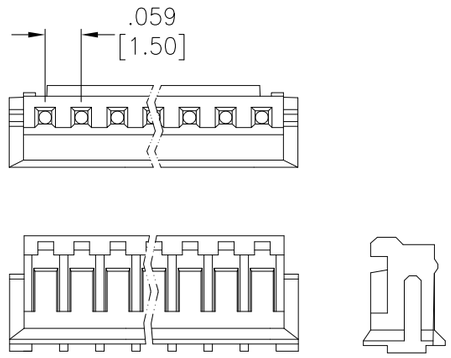
| SERIES | BODY STYLE | POSITIONS |
|---|---|---|
| **15CH** = *1.50mm Single Row*<br>**15CHD** = *1.50mm Dual Row* | **A** = *Body Style "A"*<br>**B** = *Body Style "B"*<br>**B1** = *Body Style "B1"*<br>**C** = *Body Style "C"* | **02** *Thru* **15** |

## CRIMP CONTACT PART NUMBER CONFIGURATION

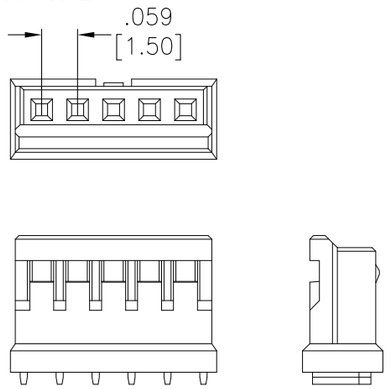
**15CTX - R - G**

| SERIES | PACKAGING | OPTIONS: |
|---|---|---|
| **15CTX** = *1.50mm Single Row Body Style Contact*<br>*Replace X with housing body style* | **R** = *Piece Reel* | *Add designator(s) to end of part number:*<br>**G** = *Gold plated* |

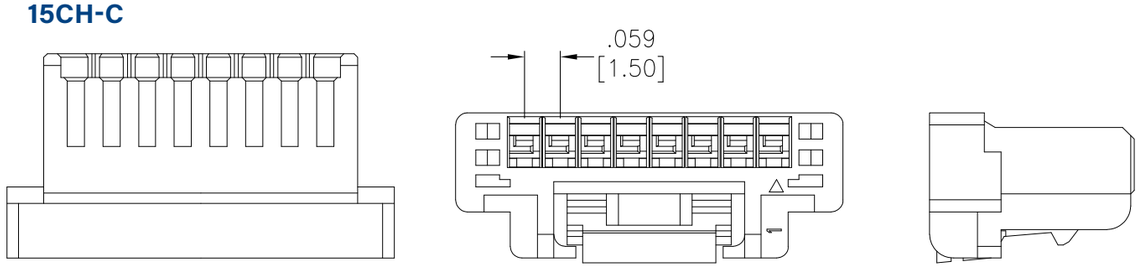
### 15CH-A




### 15CH-B



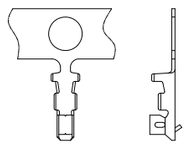

### 15CH-C



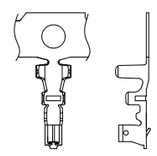

## HOUSINGS

| PART NUMBER | PITCH | BODY STYLE | NO. OF ROWS | TERMINATION | PRODUCT DATA |
|---|---|---|---|---|---|
| 15CH-A-XX | .059" [1.50mm] | A | 1 | Crimp | View |
| 15CH-B-XX | .059" [1.50mm] | B | 1 | Crimp | View |
| 15CH-B1-XX | .059" [1.50mm] | B | 1 | Crimp | View |
| 15CH-C-XX | .059" [1.50mm] | C | 1 | Crimp | View |

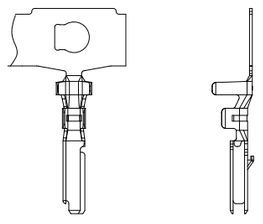
### 15CTA-R



### 15CTB-R



### 15CTC-R



## CRIMP CONTACTS

| PART NUMBER | PITCH | STYLE | PLATING | PRODUCT DATA |
|---|---|---|---|---|
| 15CTA-R | .059" [1.50mm] | A | Tin | View |
| 15CTB-MT-R | .059" [1.50mm] | B | Tin | View |
| 15CTB-R | .059" [1.50mm] | B | Tin | View |
| 15CTB1-G-R | .059" [1.50mm] | B | Gold | View |
| 15CTC-X-R | .059" [1.50mm] | C | Tin | View |

## FEATURES & SPECIFICATIONS

### FEATURES:
.079" [2.0mm] pitch
Multiple positions and configurations
Matched Housing & Header system
Straight, Right Angle or SMT Headers
Sure fit, Fine Pitched & Polarized

### MATING CONNECTORS:
Each set has a male and female mate

### SPECIFICATIONS:

### Material:
Insulator:
Thru-hole: PBT, glass reinforced, rated UL94V-0
SMT: Nylon 46 or 6T, rated UL94V-0
Contacts: Brass

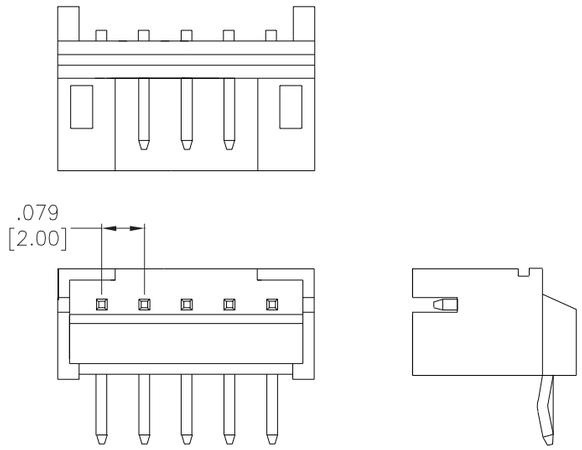
### Plating:
Tin over copper underplate overall

### Electrical:
Operating voltage: 100V AC max.
Current rating: 2 Amp max.
Insulation resistance: 1,000 MΩ min.
Contact Resistance: 20 mohms max.
Dielectric withstanding voltage: 500V – 1000V AC for 1 minute

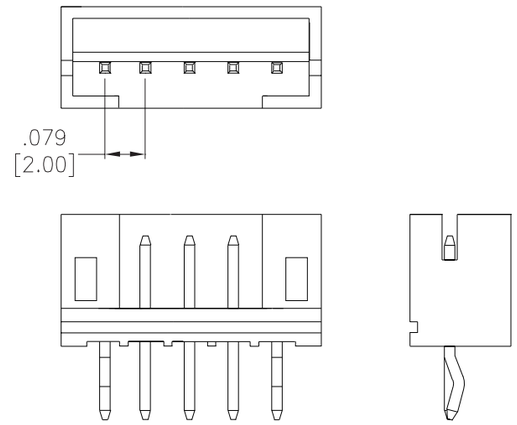
### Temperature Rating:
Operating temperature range: -25°C to +85°C

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### 2SH-C-05-TR




### 2SH-C-05-TS




## PART NUMBER CONFIGURATION

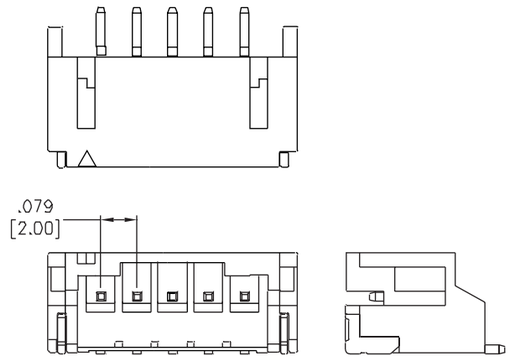
**2SH - J - 4 - GS - 15**

| SERIES | BODY STYLE | POSITIONS | PIN ANGLE | OPTIONS: |
|---|---|---|---|---|
| **2SH** = *2.00mm Single Row*<br>**2SHD** = *2.00mm Dual Row* | **B** = *Body Style "B"*<br>**C** = *Body Style "C"*<br>**C1** = *Body Style "C1"*<br>**C2** = *Body Style "C2"*<br>**C3** = *Body Style "C3"*<br>**C4** = *Body Style "C4"*<br>**C5** = *Body Style "C5"*<br>**D** = *Body Style "D"*<br>**D2** = *Body Style "D2"*<br>**F** = *Body Style "F"*<br>**F1** = *Body Style "F1"*<br>**F2** = *Body Style "F2"*<br>**G** = *Body Style "G"*<br>**H** = *Body Style "H"*<br>**HA** = *Body Style "HA"*<br>**J** = *Body Style "J"*<br>**K** = *Body Style "K"*<br>**K1** = *Body Style "K1"*<br>**K2** = *Body Style "K2"*<br>**M** = *Body Style "M"*<br>**N** = *Body Style "N"*<br>**P** = *Body Style "P"*<br>**Q** = *Body Style "Q"* | **02** *Thru* **15** | **GS** = *Gold Straight PCB*<br>**GR** = *Gold Right Angle PCB*<br>**TS** = *Tin Straight PCB*<br>**TR** = *Tin Right Angle PCB* | *Add designator(s) to end of part number:*<br>**SMT** = *Surface mount leads with Hi-Temp insolator*<br>**PP** = *Pick and Place Cap*<br>**T/R** = *Tape and Reel Packaging* |

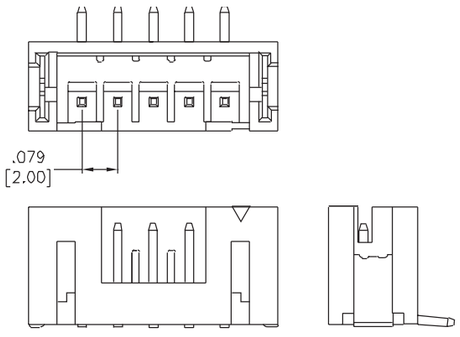
| PART NUMBER | PITCH | BODY STYLE | MOUNTING ORIENTATION | MOUNTING | PLATING | NO. OF ROWS | PACKAGING | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|
| 2SH-B-XX-SMT-A | .079" [2.00mm] | B | Vertical | Surface Mount | Tin | 1 | Tube | View |
| 2SH-B-XX-SMT-A-TR | .079" [2.00mm] | B | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 2SH-B-XX-TR | .079" [2.00mm] | B | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 2SH-B-XX-TS | .079" [2.00mm] | B | Vertical | Through Hole | Tin | 1 | Tube | View |
| 2SH-C-03-TR-SMT-X02-TR | .079" [2.00mm] | C | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 2SH-C-06-TR-K02-K05 | .079" [2.00mm] | C | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 2SH-C-XX-GR-15 | .079" [2.00mm] | C | Right Angle | Through Hole | Gold | 1 | Tube | View |
| 2SH-C-XX-GR-SMT-TR | .079" [2.00mm] | C | Right Angle | Surface Mount | Gold | 1 | Tape & Reel | View |
| 2SH-C-XX-GS | .079" [2.00mm] | C | Vertical | Through Hole | Gold | 1 | Tube | View |
| 2SH-C-XX-GS-15 | .079" [2.00mm] | C | Vertical | Through Hole | Gold | 1 | Tube | View |
| 2SH-C-XX-GS-30 | .079" [2.00mm] | C | Vertical | Through Hole | Gold | 1 | Tube | View |
| 2SH-C-XX-GS-SMT-PP-TR | .079" [2.00mm] | C | Vertical | Surface Mount | Gold | 1 | Tape & Reel | View |
| 2SH-C-XX-MTR | .079" [2.00mm] | C | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 2SH-C-XX-MTR-NK-094 | .079" [2.00mm] | C | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 2SH-C-XX-MTS | .079" [2.00mm] | C | Vertical | Through Hole | Tin | 1 | Tube | View |
| 2SH-C-XX-MTS-BK | .079" [2.00mm] | C | Vertical | Through Hole | Tin | 1 | Tube | View |
| 2SH-C-XX-MTS-SMT-PP-TR | .079" [2.00mm] | C | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 2SH-C-XX-TR | .079" [2.00mm] | C | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 2SH-C-XX-TR-RD | .079" [2.00mm] | C | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 2SH-C-XX-TR-SMT | .079" [2.00mm] | C | Right Angle | Surface Mount | Tin | 1 | Tube | View |
| 2SH-C-XX-TR-SMT-BK-HF-TR | .079" [2.00mm] | C | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 2SH-C-XX-TR-SMT-TR | .079" [2.00mm] | C | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 2SH-C-XX-TR-TR | .079" [2.00mm] | C | Right Angle | Through Hole | Tin | 1 | Tape & Reel | View |

| PART NUMBER | PITCH | BODY STYLE | MOUNTING ORIENTATION | MOUNTING | PLATING | NO. OF ROWS | PACKAGING | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|
| 2SH-C-XX-TS | .079" [2.00mm] | C | Vertical | Through Hole | Tin | 1 | Tube | View |
| 2SH-C-XX-TS-BK | .079" [2.00mm] | C | Vertical | Through Hole | Tin | 1 | Tube | View |
| 2SH-C-XX-TS-RD | .079" [2.00mm] | C | Vertical | Through Hole | Tin | 1 | Tube | View |
| 2SH-C-XX-TS-SMT | .079" [2.00mm] | C | Vertical | Surface Mount | Tin | 1 | Tube | View |
| 2SH-C-XX-TS-SMT-KT-TR | .079" [2.00mm] | C | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 2SH-C-XX-TS-SMT-TR | .079" [2.00mm] | C | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 2SH-C-XX-TS-V2 | .079" [2.00mm] | C | Vertical | Through Hole | Tin | 1 | Tube | View |
| 2SH-C1-XX-TS-HT | .079" [2.00mm] | C | Vertical | Through Hole | Tin | 1 | Tube | View |
| 2SH-C2-XX-TR-SMT | .079" [2.00mm] | C | Right Angle | Surface Mount | Tin | 1 | Tube | View |
| 2SH-C2-XX-TS-SMT | .079" [2.00mm] | C | Vertical | Surface Mount | Tin | 1 | Tube | View |
| 2SH-C3-XX-TR | .079" [2.00mm] | C | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 2SH-C3-XX-TR-NY46 | .079" [2.00mm] | C | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 2SH-C3-XX-TR-SMT | .079" [2.00mm] | C | Right Angle | Surface Mount | Tin | 1 | Tube | View |
| 2SH-C3-XX-TR-SMT-TR | .079" [2.00mm] | C | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 2SH-C3-XX-TS | .079" [2.00mm] | C | Vertical | Through Hole | Tin | 1 | Tube | View |
| 2SH-C3-XX-TS-SMT | .079" [2.00mm] | C | Vertical | Surface Mount | Tin | 1 | Tube | View |
| 2SH-C3-XX-TS-SMT-KT-TR | .079" [2.00mm] | C | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 2SH-D-XX-TS-BK | .079" [2.00mm] | D | Vertical | Through Hole | Tin | 1 | Tube | View |
| 2SH-D-XX-TS-BU | .079" [2.00mm] | D | Vertical | Through Hole | Tin | 1 | Tube | View |
| 2SH-D-XX-TS-NK | .079" [2.00mm] | D | Vertical | Through Hole | Tin | 1 | Tube | View |
| 2SH-D-XX-TS-YW | .079" [2.00mm] | D | Vertical | Through Hole | Tin | 1 | Tube | View |
| 2SH-D2-XX-TR | .079" [2.00mm] | D | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 2SH-F-XX-TR | .079" [2.00mm] | F | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 2SH-F-XX-TS | .079" [2.00mm] | F | Vertical | Through Hole | Tin | 1 | Tube | View |
| 2SH-F1-XX-TS | .079" [2.00mm] | F | Vertical | Through Hole | Tin | 1 | Tube | View |
| 2SH-G-XX-GR | .079" [2.00mm] | G | Right Angle | Through Hole | Gold | 1 | Tube | View |
| 2SH-G-XX-TR | .079" [2.00mm] | G | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 2SH-G-XX-TR-SMT-PP-TR | .079" [2.00mm] | G | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 2SH-G-XX-TR-SMT-TR | .079" [2.00mm] | G | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 2SH-G-XX-TS | .079" [2.00mm] | G | Vertical | Through Hole | Tin | 1 | Tube | View |
| 2SH-G-XX-TS-SMT-PP-TR | .079" [2.00mm] | G | Vertical | Surface Mount | Tin | 1 | Tape & Reel | View |
| 2SH-H-XX-TR | .079" [2.00mm] | H | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 2SH-H-XX-TS | .079" [2.00mm] | H | Vertical | Through Hole | Tin | 1 | Tube | View |
| 2SH-HA-XX-MTR | .079" [2.00mm] | H | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 2SH-HA-XX-MTS | .079" [2.00mm] | H | Vertical | Through Hole | Tin | 1 | Tube | View |
| 2SH-HA-XX-TR | .079" [2.00mm] | H | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 2SH-K-04-TS-X01-X03 | .079" [2.00mm] | K | Vertical | Through Hole | Tin | 1 | Tube | View |
| 2SH-K-XX-GR | .079" [2.00mm] | K | Right Angle | Through Hole | Gold | 1 | Tube | View |
| 2SH-K-XX-GS | .079" [2.00mm] | K | Vertical | Through Hole | Gold | 1 | Tube | View |
| 2SH-K-XX-MTR-HF | .079" [2.00mm] | K | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 2SH-K-XX-TR | .079" [2.00mm] | K | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 2SH-K-XX-TS | .079" [2.00mm] | K | Vertical | Through Hole | Tin | 1 | Tube | View |
| 2SH-P-XX-MT-T144 | .079" [2.00mm] | P | Vertical | Through Hole | Tin | 1 | Tube | View |
| 2SH-P-XX-T-T144 | .079" [2.00mm] | P | Vertical | Through Hole | Tin | 1 | Tube | View |
| 2SHD-C-XX-TR | .079" [2.00mm] | C | Right Angle | Through Hole | Tin | 2 | Tube | View |
| 2SHD-C-XX-TS | .079" [2.00mm] | C | Vertical | Through Hole | Tin | 2 | Tube | View |

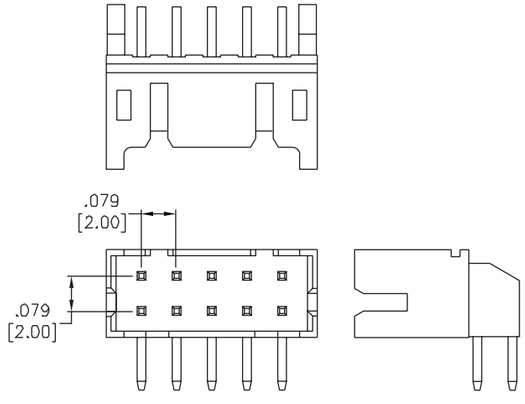
### 2SH-C-05-TR-SMT



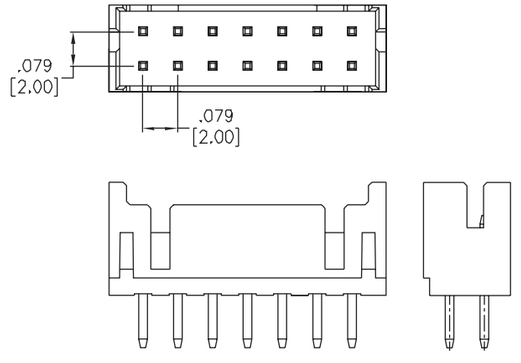

### 2SH-C-05-TS-SMT




### 2SHD-C-10-TR




### 2SHD-C-14-TS



## FEATURES & SPECIFICATIONS

### FEATURES:
.079" [2.0mm] pitch
Multiple positions and configurations
Gold or tin plated crimp terminals
Matched Housing & Header system
Straight, Right Angle or SMT Headers
Sure fit, Fine Pitched & Polarized

### MATING CONNECTORS:
Each set has a male and female mate

### SPECIFICATIONS:

#### Material:
Insulator:
Thru-hole: PBT, glass reinforced, rated UL94V-0
SMT: Nylon 46 or 6T, rated UL94V-0
Contacts: Brass

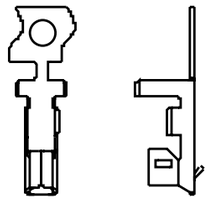
#### Plating:
Tin over copper underplate overall

#### Electrical:
Operating voltage: 100V AC max.
Current rating: 2 Amp max.
Insulation resistance: 1,000 MΩ min.
Contact Resistance: 20 mohms max.
Dielectric withstanding voltage: 500V – 1000V AC for 1 minute

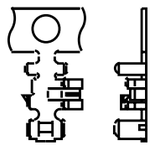
#### Temperature Rating:
Operating temperature range: -25°C to +85°C

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

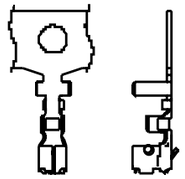
**2CTC3-R**



**2CTD-R**



**2CTF-R**



## CRIMP HOUSING PART NUMBER CONFIGURATION

**2CH - B - 4**

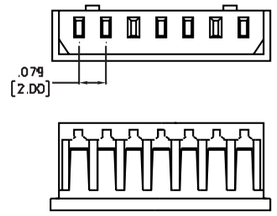
| SERIES | BODY STYLE | POSITIONS |
|---|---|---|
| **2CH** = *2.00mm Single Row*<br>**2CHD** = *2.00mm Dual Row* | **A1** = *Body Style "A1"*<br>**A2** = *Body Style "A2"*<br>**B** = *Body Style "B"*<br>**C** = *Body Style "C"*<br>**C1** = *Body Style "C1"*<br>**C3** = *Body Style "C3"*<br>**D** = *Body Style "D"*<br>**F** = *Body Style "F"*<br>**F2** = *Body Style "F2"*<br>**G** = *Body Style "G"*<br>**H** = *Body Style "H"*<br>**HA** = *Body Style "HA"*<br>**J** = *Body Style "J"*<br>**K** = *Body Style "K"*<br>**K1** = *Body Style "K1"*<br>**N** = *Body Style "N"*<br>**Q** = *Body Style "Q"*<br>**Y** = *Body Style "Y"*<br>**YL** = *Body Style "YL"*<br>**Z** = *Body Style "Z"*<br>**Z1** = *Body Style "Z1"* | **02** *Thru* **15** |

## CRIMP CONTACT PART NUMBER CONFIGURATION

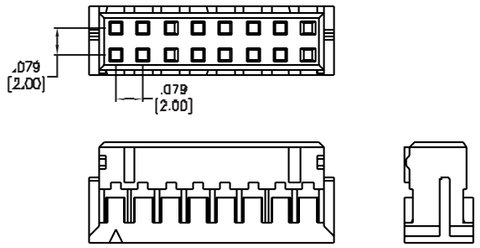
**2CTX - R - G**

| SERIES | PACKAGING | OPTIONS: |
|---|---|---|
| **2CTX** = *2.00mm Body Style Contact*<br>**2CTDX** = *2.00mm Body Style Contact*<br>*Replace X with housing body style* | **R** = *Piece Reel* | *Add designator(s) to end of part number:*<br>**G** = *Gold plated* |

**2CH-F-07**




**2CHD-C3-16**




## HOUSINGS

| PART NUMBER | PITCH | BODY STYLE | NO. OF ROWS | TERMINATION | PRODUCT DATA |
|---|---|---|---|---|---|
| 2CH-A1-XX | .079" [2.00mm] | A | 1 | Crimp | View |
| 2CH-B-XX | .079" [2.00mm] | B | 1 | Crimp | View |
| 2CH-C-XX | .079" [2.00mm] | C | 1 | Crimp | View |
| 2CH-C-XX-V0 | .079" [2.00mm] | C | 1 | Crimp | View |
| 2CH-C1-XX-V0 | .079" [2.00mm] | C | 1 | Crimp | View |
| 2CH-C1-XX-XX-V0 | .079" [2.00mm] | C | 1 | Crimp | View |
| 2CH-C3-XX-V0 | .079" [2.00mm] | C | 1 | Crimp | View |
| 2CH-G-XX | .079" [2.00mm] | G | 1 | Crimp | View |
| 2CH-H-XX | .079" [2.00mm] | H | 1 | Crimp | View |
| 2CH-HA-XX | .079" [2.00mm] | H | 1 | Crimp | View |
| 2CH-J-XX | .079" [2.00mm] | J | 1 | Crimp | View |
| 2CH-K-XX | .079" [2.00mm] | K | 1 | Crimp | View |
| 2CH-N-XX | .079" [2.00mm] | N | 1 | Crimp | View |
| 2CH-Y-XX | .079" [2.00mm] | Y | 1 | Crimp | View |
| 2CH-YL-XX | .079" [2.00mm] | Y | 1 | Crimp | View |
| 2CH-Z1-XX | .079" [2.00mm] | Z | 1 | Crimp | View |
| 2CH-Z1-XX-RA | .079" [2.00mm] | Z | 1 | Crimp | View |

## CRIMP CONTACTS

| PART NUMBER | PITCH | STYLE | PLATING | PRODUCT DATA |
|---|---|---|---|---|
| 2CTA-X | .079" [2.00mm] | A | Gold | View |
| 2CTA2-R | .079" [2.00mm] | A | Gold | View |
| 2CTB-R | .079" [2.00mm] | B | Tin | View |
| 2CTC-G-R | .079" [2.00mm] | C | Gold | View |
| 2CTC-MT-R | .079" [2.00mm] | C | Tin | View |
| 2CTC-R | .079" [2.00mm] | C | Tin | View |
| 2CTC-X | .079" [2.00mm] | C | Tin | View |
| 2CTC3-R | .079" [2.00mm] | C | Tin | View |
| 2CTD2-R | .079" [2.00mm] | D | Tin | View |
| 2CTDC-R | .079" [2.00mm] | D | Tin | View |
| 2CTE6-R | .079" [2.00mm] | E | Tin | View |
| 2CTF-R | .079" [2.00mm] | F | Tin | View |
| 2CTF1-R | .079" [2.00mm] | F | Tin | View |
| 2CTG-R | .079" [2.00mm] | G | Tin | View |
| 2CTH-R | .079" [2.00mm] | H | Tin | View |
| 2CTHA-R | .079" [2.00mm] | H | Tin | View |
| 2CTJ-R | .079" [2.00mm] | J | Tin | View |
| 2CTK-MT-R | .079" [2.00mm] | K | Tin | View |
| 2CTK-R | .079" [2.00mm] | K | Tin | View |
| 2CTN-R | .079" [2.00mm] | N | Tin | View |
| 2CTY-R | .079" [2.00mm] | Y | Tin | View |
| 2CTYL-R | .079" [2.00mm] | Y | Tin | View |
| 2CTZ-MT-R | .079" [2.00mm] | Z | Tin | View |
| 2CTZ-R | .079" [2.00mm] | Z | Tin | View |
| 2CTZR-MT-R | .079" [2.00mm] | Z | Tin | View |
| 2CTZR1-01-R | .079" [2.00mm] | Z | Tin | View |

## FEATURES & SPECIFICATIONS

### FEATURES:
.098" [2.5mm] pitch
Multiple positions and configurations
Matched Housing & Header system
Straight, Right Angle or SMT Headers
Sure fit, Fine Pitched & Polarized

### MATING CONNECTORS:
Each set has a male and female mate

### SPECIFICATIONS:

### Material:
Insulator:
Thru-hole: PBT, glass reinforced, rated UL94V-0
SMT: Nylon 46 or 6T, rated UL94V-0
Contacts: Brass

### Plating:
Tin over copper underplate overall

### Electrical:
Operating voltage: 250V AC max.
Current rating: 3 Amp max.
Insulation resistance: 1,000 MΩ min.
Contact Resistance: 20 mohms max.
Dielectric withstanding voltage: 800V – 1000V AC for 1 minute

### Temperature Rating:
Operating temperature range: -25°C to +85°C

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

## PART NUMBER CONFIGURATION

**25SH - P - 4 - TR - SMT**

| SERIES | BODY STYLE | POSITIONS | PIN ANGLE | OPTIONS: |
|---|---|---|---|---|
| **25SH** = *2.50mm Single Row* | **B** = *Body Style "B"*<br>**B2** = *Body Style "B2"*<br>**B3** = *Body Style "B3"*<br>**C** = *Body Style "C"*<br>**C1** = *Body Style "C1"*<br>**D** = *Body Style "D"*<br>**E** = *Body Style "E"*<br>**E2** = *Body Style "E2"*<br>**E3** = *Body Style "E3"*<br>**E4** = *Body Style "E4"*<br>**K** = *Body Style "K"*<br>**M** = *Body Style "M"*<br>**P** = *Body Style "P"*<br>**P1** = *Body Style "P1"*<br>**P2** = *Body Style "P2"*<br>**Q** = *Body Style "Q"* | **02** *Thru* **15** | **GS** = *Gold Straight PCB*<br>**GR** = *Gold Right Angle PCB*<br>**TS** = *Tin Straight PCB*<br>**TR** = *Tin Right Angle PCB* | *Add designator(s) to end of part number:*<br>**SMT** = *Surface mount leads with Hi-Temp insolator*<br>**PP** = *Pick and Place Cap*<br>**T/R** = *Tape and Reel Packaging* |

| PART NUMBER | PITCH | BODY STYLE | MOUNTING ORIENTATION | MOUNTING | PLATING | NO. OF ROWS | PACKAGING | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|
| 25SH-B-XX-GR-NK | .098" [2.50mm] | B | Right Angle | Through Hole | Gold | 1 | Tube | View |
| 25SH-B-XX-GS | .098" [2.50mm] | B | Vertical | Through Hole | Gold | 1 | Tube | View |
| 25SH-B-XX-GS-NK | .098" [2.50mm] | B | Vertical | Through Hole | Gold | 1 | Tube | View |
| 25SH-B-XX-MTR | .098" [2.50mm] | B | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 25SH-B-XX-MTS | .098" [2.50mm] | B | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-B-XX-TR | .098" [2.50mm] | B | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 25SH-B-XX-TR-NK | .098" [2.50mm] | B | Right Angle | Through Hole | Tin | 1 | Tube | View |

| PART NUMBER | PITCH | BODY STYLE | MOUNTING ORIENTATION | MOUNTING | PLATING | NO. OF ROWS | PACKAGING | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|
| 25SH-B-XX-TS | .098" [2.50mm] | B | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-B-XX-TS-NK-HT | .098" [2.50mm] | B | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-B-XX-TS-P | .098" [2.50mm] | B | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-B-XX-TS-P-BK | .098" [2.50mm] | B | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-C-04-TS-X03 | .098" [2.50mm] | C | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-C-XX-MTR | .098" [2.50mm] | C | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 25SH-C-XX-MTS | .098" [2.50mm] | C | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-C-XX-TR | .098" [2.50mm] | C | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 25SH-C-XX-TS | .098" [2.50mm] | C | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-C-XX-TS-NK | .098" [2.50mm] | C | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-E-XX-MTR | .098" [2.50mm] | E | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 25SH-E-XX-TR | .098" [2.50mm] | E | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 25SH-E-XX-TR-WT | .098" [2.50mm] | E | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 25SH-E-XX-TS | .098" [2.50mm] | E | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-E-XX-TS-HF-HT | .098" [2.50mm] | E | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-E-XX-TS-HT | .098" [2.50mm] | E | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-E-XX-TS-PP-TR | .098" [2.50mm] | E | Vertical | Through Hole | Tin | 1 | Tape & Reel | View |
| 25SH-E-XX-TS-V2 | .098" [2.50mm] | E | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-E-XX-TS-V2-HF | .098" [2.50mm] | E | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-E-XX-TS-WT | .098" [2.50mm] | E | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-E2-XX-TR-V2 | .098" [2.50mm] | E | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 25SH-E2-XX-TS | .098" [2.50mm] | E | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-E2-XX-TS-V2 | .098" [2.50mm] | E | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-K-XX-TR | .098" [2.50mm] | K | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 25SH-K-XX-TR-PBL | .098" [2.50mm] | K | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 25SH-K-XX-TS | .098" [2.50mm] | K | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-K-XX-TS-BK | .098" [2.50mm] | K | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-K-XX-TS-BU | .098" [2.50mm] | K | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-K-XX-TS-NP | .098" [2.50mm] | K | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-K-XX-TS-RD | .098" [2.50mm] | K | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-K-XX-TS-SMT | .098" [2.50mm] | K | Vertical | Surface Mount | Tin | 1 | Tube | View |
| 25SH-M-XX-TR | .098" [2.50mm] | M | Right Angle | Through Hole | Tin | 1 | Tube | View |
| 25SH-M-XX-TS | .098" [2.50mm] | M | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-M-XX-TS-BK | .098" [2.50mm] | M | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-M-XX-TS-RD | .098" [2.50mm] | M | Vertical | Through Hole | Tin | 1 | Tube | View |
| 25SH-P-XX-TR-SMT | .098" [2.50mm] | P | Right Angle | Surface Mount | Tin | 1 | Tube | View |
| 25SH-P-XX-TR-SMT-TR | .098" [2.50mm] | P | Right Angle | Surface Mount | Tin | 1 | Tape & Reel | View |
| 25SH-P1-XX-GR-SMT | .098" [2.50mm] | P | Right Angle | Surface Mount | Gold | 1 | Tube | View |
| 25SH-P1-XX-GR-SMT-TR | .098" [2.50mm] | P | Right Angle | Surface Mount | Gold | 1 | Tape & Reel | View |
| 25SH-P2-XX-GR-SMT-TR | .098" [2.50mm] | P | Right Angle | Surface Mount | Gold | 1 | Tape & Reel | View |
| 25SHD-A-XX-TS | .098" [2.50mm] | A | Vertical | Through Hole | Tin | 2 | Tube | View |

## FEATURES & SPECIFICATIONS

### FEATURES:
.098" [2.5mm] pitch
Multiple positions and configurations
Gold or tin plated crimp terminals
Matched Housing & Header system
Straight, Right Angle or SMT Headers
Sure fit, Fine Pitched & Polarized

### MATING CONNECTORS:
Each set has a male and female mate

### SPECIFICATIONS:

### Material:
Insulator:
Thru-hole: PBT, glass reinforced, rated UL94V-0
SMT: Nylon 46 or 6T, rated UL94V-0
Contacts: Brass

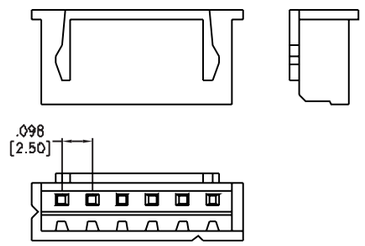
### Plating:
Tin over copper underplate overall

### Electrical:
Operating voltage: 250V AC max.
Current rating: 3 Amp max.
Insulation resistance: 1,000 MΩ min.
Contact Resistance: 20 mohms max.
Dielectric withstanding voltage: 800V – 1000V AC for 1 minute

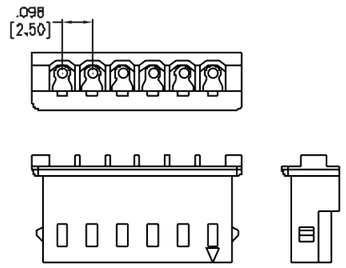
### Temperature Rating:
Operating temperature range: -25°C to +85°C

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

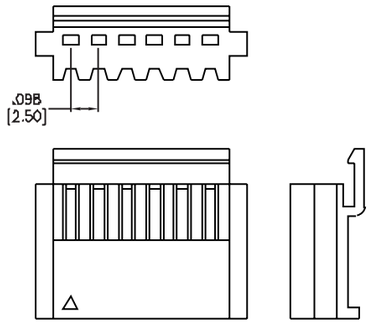
### 25CH-B HOUSING




### 25CH-E HOUSING




### 25CH-M HOUSING




## HOUSINGS

| PART NUMBER | PITCH | BODY STYLE | NO. OF ROWS | TERMINATION | PRODUCT DATA |
|---|---|---|---|---|---|
| 25CH-B-XX | .098" [2.50mm] | B | 1 | Crimp | View |
| 25CH-C-XX | .098" [2.50mm] | C | 1 | Crimp | View |
| 25CH-D-XX | .098" [2.50mm] | D | 1 | Crimp | View |
| 25CH-E-XX | .098" [2.50mm] | E | 1 | Crimp | View |
| 25CH-E6-XX | .098" [2.50mm] | E | 1 | Crimp | View |
| 25CH-F-XX | .098" [2.50mm] | F | 1 | Crimp | View |
| 25CH-G-XX | .098" [2.50mm] | G | 1 | Crimp | View |
| 25CH-H-XX | .098" [2.50mm] | H | 1 | Crimp | View |
| 25CH-K-XX | .098" [2.50mm] | K | 1 | Crimp | View |
| 25CH-L-XX | .098" [2.50mm] | L | 1 | Crimp | View |
| 25CH-M-XX | .098" [2.50mm] | M | 1 | Crimp | View |
| 25CH-N-XX | .098" [2.50mm] | N | 1 | Crimp | View |

## CRIMP HOUSING PART NUMBER CONFIGURATION

**25CH - L - 4**

| SERIES | BODY STYLE | POSITIONS |
|---|---|---|
| **25CH** = *2.50mm Single Row* | **B** = *Body Style "B"*<br>**B1** = *Body Style "B1"*<br>**C** = *Body Style "C"*<br>**D** = *Body Style "D"*<br>**E** = *Body Style "E"*<br>**E1** = *Body Style "E1"*<br>**E2** = *Body Style "E2"*<br>**E4** = *Body Style "E4"*<br>**F** = *Body Style "F"*<br>**F1** = *Body Style "F1"*<br>**G** = *Body Style "G"*<br>**H** = *Body Style "H"*<br>**K** = *Body Style "K"*<br>**L** = *Body Style "L"*<br>**M** = *Body Style "M"*<br>**N** = *Body Style "N"*<br>**Q** = *Body Style "Q"* | **02** *Thru* **15** |

## CRIMP CONTACT PART NUMBER CONFIGURATION

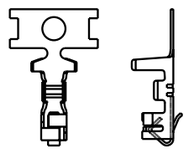
**25CTX - R - G**

| SERIES | PACKAGING | OPTIONS: |
|---|---|---|
| **25CTX** = *2.50mm Body Style Contact*<br>*Replace X with housing body style* | **R** = *Piece Reel* | *Add designator(s) to end of part number:*<br>**G** = *Gold plated* |

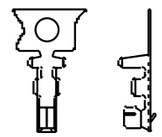
## CRIMP CONTACTS

| PART NUMBER | PITCH | STYLE | PLATING | PRODUCT DATA |
|---|---|---|---|---|
| 25CTB-R | .098" [2.50mm] | B | Tin | View |
| 25CTC-R | .098" [2.50mm] | C | Tin | View |
| 25CTE-R | .098" [2.50mm] | E | Tin | View |
| 25CTE6-R | .098" [2.50mm] | E | Tin | View |

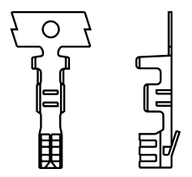
### 25CTB-R



### 25CTC-R

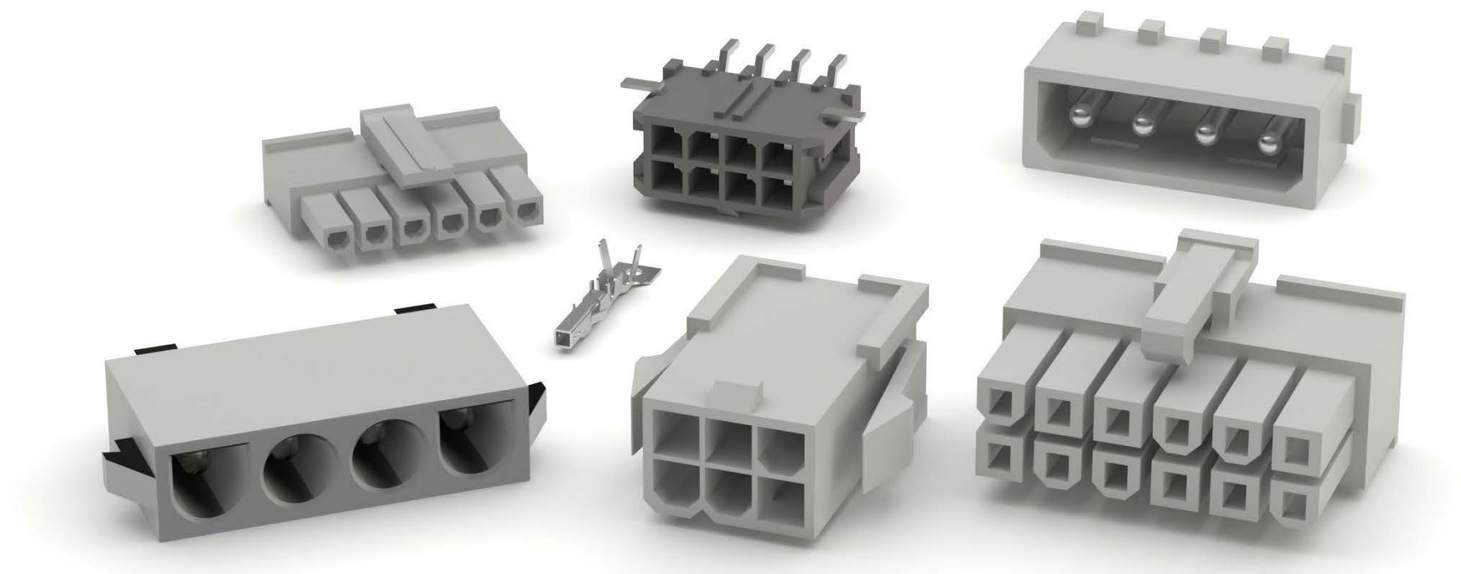


### 25CTE-R



# Wire to Board Power Connectors and Systems

Adam Tech Wire to Board Power Connectors consist of a receptacle and plug set in a variety of single and multiple row configurations with .098", .100", .118", .137", .163", .165", .224" and .250" pitch centerlines. They are manufactured of Nylon 6/6 with a flammability rating of UL94V-2 or UL94V-0. This series is designed as a mated set with a PCB mounted header and a wire mounted socket which securely latches to header when mated. Our specially designed bodies provide polarization to eliminate mismating and our latching system resists heavy vibration. PCB mounted headers have molded pegs which align and brace the PCB tails for trouble free assembly and use.



## FEATURES & SPECIFICATIONS

### FEATURES:

Header, housings, and crimp sets
Pitches ranging from .098" to .250"
Available in multiple positions
Secure latching
Polarized anti-vibration design
Molded pegs

### SPECIFICATIONS:

### Material:

Insulator: Nylon 66, rated UL94V-2 or UL94V-0
Insulator Color: Natural or black
Contacts: Brass, tin plated

### Electrical:

Operating voltage: 250V – 600V AC / DC max.
Current Rating: 3 - 13 Amps max
Contact Resistance: 20 mohms max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1000V – 5000V AC/ DC for 1 minute

### Temperature Rating:

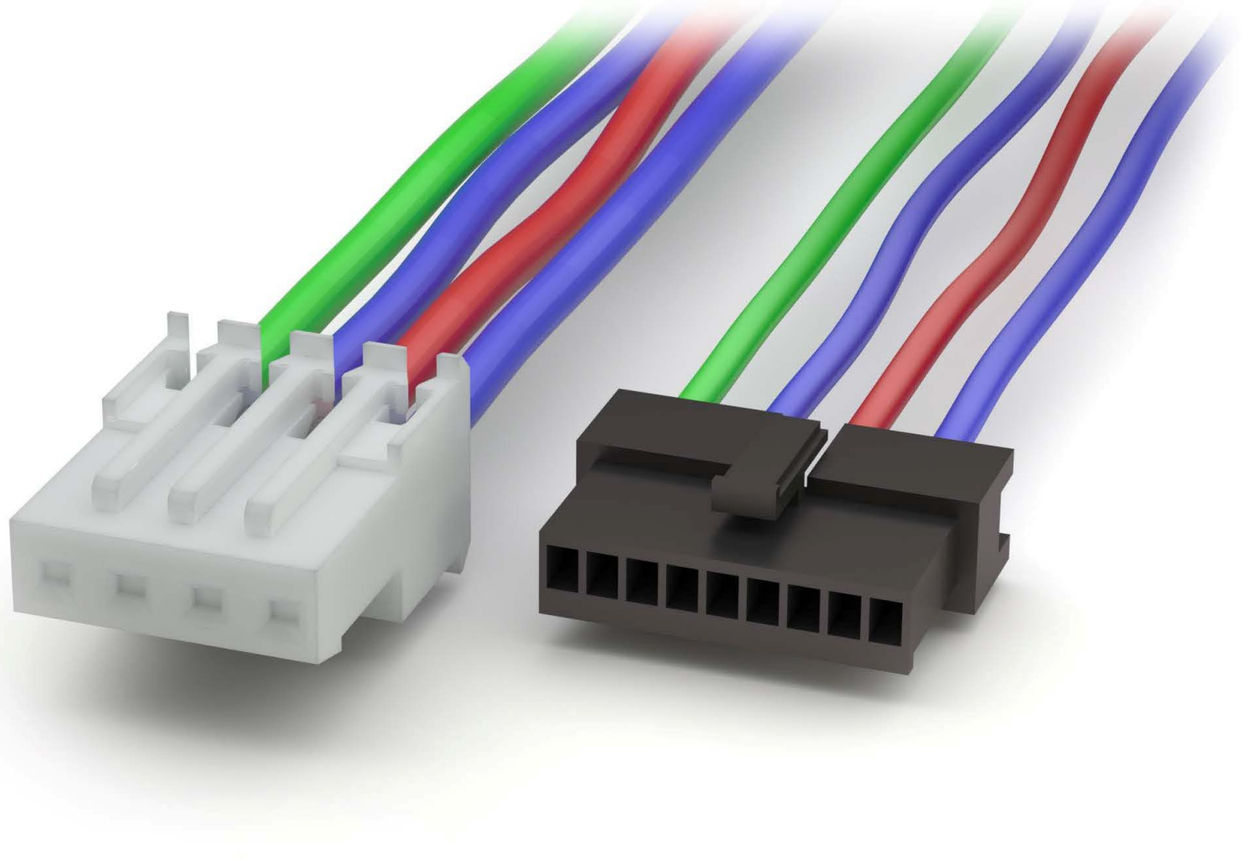
Operating temperature range: -25°C to +85°C

### PACKAGING:

Anti-ESD plastic bags

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



## FEATURES & SPECIFICATIONS

### FEATURES:
.100” [2.54mm] pitch
Positions: 4 to 50
Dual row
Secure latching
Polarized anti-vibration design
Molded pegs

### SPECIFICATIONS:

### Material:
Insulator: Nylon 66, rated UL94V-2 or UL94V-0
Insulator Color: Natural or black
Contacts: Brass, tin plated

### Electrical:
Operating voltage: 250V AC / DC max.
Current Rating: 3 Amps max
Contact Resistance: 20 mohms max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1000V AC/DC for 1 minute

### Temperature Rating:
Operating temperature range: -55°C to +125°C

### PACKAGING:
Anti-ESD plastic bags

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

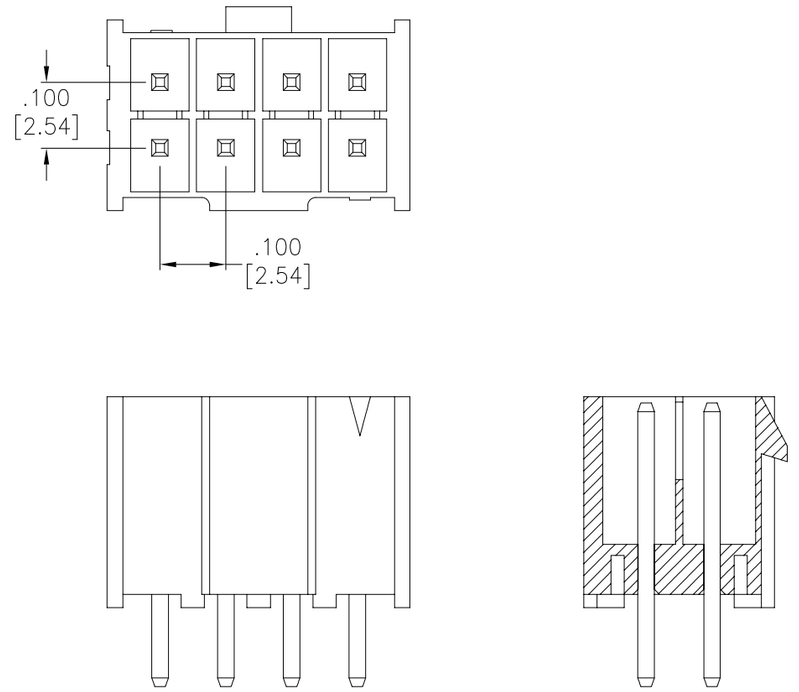
## PART NUMBER CONFIGURATION

**DMV - 50 - RA - SG - SMT - V0 - BG**

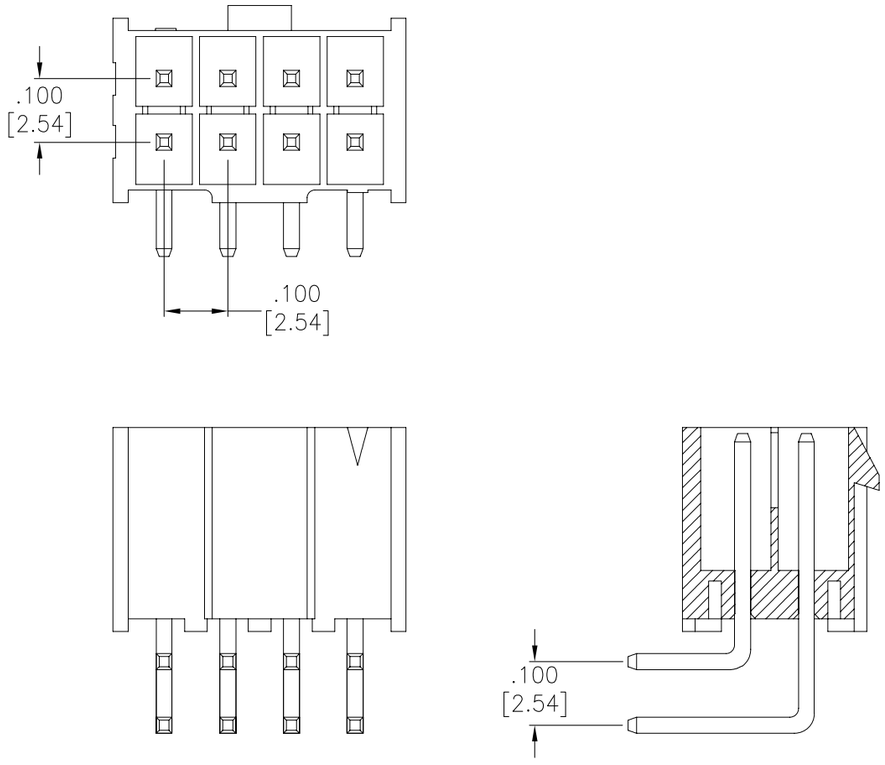
| SERIES | POSITIONS | MOUNTING TYPE | PLATING OPTIONS | SOLDER OPTIONS | UL94VX RATING | OPTIONS: |
|---|---|---|---|---|---|---|
| **DMV** = *.100 [2.54] Wafer, Dual Rows, Straight* | **04** *Thru* **50** *Dual Row* | **RA** = *Right angle*<br>**V** = *Straight SMT*<br>**Blank** = *Straight DIP* | **T** = *Tin*<br>**SG** = *Selective Gold* | **Blank** = *DIP Type*<br>**SMT** = *Surface mount* | **Blank** = *V2*<br>**V0** = *V0* | **BG** = *Beige color insulator*<br>**HT** = *High Temperature Insulator*<br>**K** = *W/ Key*<br>**T/R** = *Tape and Reel Packaging* |

| PART NUMBER | PITCH | NO. OF ROWS | MOUNTING ORIENTATION | MOUNTING | PLATING | PACKAGING | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| DMV-XX-RA-SG-BG-V0-HT | .100" [2.54mm] | 2 | Right Angle | Through Hole | Gold | Bag | View |
| DMV-XX-RA-SG-V0-HT | .100" [2.54mm] | 2 | Right Angle | Through Hole | Gold | Bag | View |
| DMV-XX-SG-BG-HT-V0 | .100" [2.54mm] | 2 | Vertical | Through Hole | Gold | Bag | View |
| DMV-XX-SG-BG-HT-V0-10 | .100" [2.54mm] | 2 | Vertical | Through Hole | Gold | Bag | View |
| DMV-XX-SG-BG-HT-V0-K | .100" [2.54mm] | 2 | Vertical | Through Hole | Gold | Bag | View |
| DMV-XX-SG-BG-HT-V0-K-10 | .100" [2.54mm] | 2 | Vertical | Through Hole | Gold | Bag | View |
| DMV-XX-SG-V0 | .100" [2.54mm] | 2 | Vertical | Through Hole | Gold | Bag | View |
| DMV-XX-SG-V0-HT | .100" [2.54mm] | 2 | Vertical | Through Hole | Gold | Bag | View |
| DMV-XX-T-BG-HT-V0 | .100" [2.54mm] | 2 | Vertical | Through Hole | Tin | Bag | View |
| DMV-XX-T-BG-HT-V0-K | .100" [2.54mm] | 2 | Vertical | Through Hole | Tin | Bag | View |
| DMV-XX-V-SG-SMT-V0 | .100" [2.54mm] | 2 | Vertical | Surface Mount | Gold | Bag | View |

### DMV STRAIGHT




### DMV RIGHT ANGLE



## FEATURES & SPECIFICATIONS

### FEATURES:
.100” [2.54mm] pitch
Positions: 2 to 25
Dual row
Secure latching
Polarized anti-vibration design
Molded pegs

### SPECIFICATIONS:

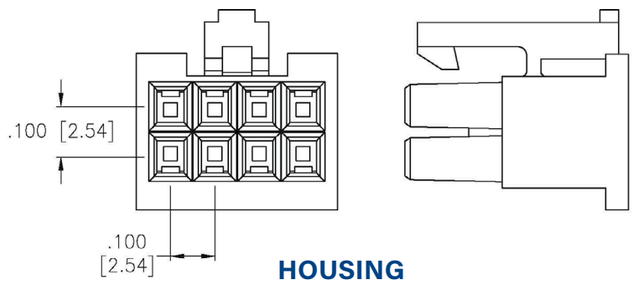
### Material:
Insulator: Nylon 66, rated UL94V-2 or UL94V-0
Insulator Color: Natural or black
Contacts: Brass, tin plated

### Electrical:
Operating voltage: 250V AC / DC max.
Current Rating: 3 Amps max
Contact Resistance: 20 mohms max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1000V AC/DC for 1 minute

### Temperature Rating:
Operating temperature range: -55°C to +125°C

### PACKAGING:
Anti-ESD plastic bags

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053



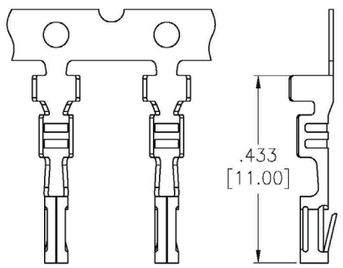

HOUSING

## HOUSING

| PART NUMBER | PITCH | NO. OF ROWS | PRODUCT DATA |
|---|---|---|---|
| DMS-XX | .100" [2.54mm] | 2 | View |

## CRIMP HOUSING PART NUMBER CONFIGURATION

| DMS | - | 04 |
|---|---|---|
| SERIES | | POSITIONS |
| **DMS** = *.100 [2.54] Plug Wire Housing* | | *2*02 (**04**) Thru 2*25 (**50**)* |




CRIMP TERMINAL

## CRIMP CONTACT PART NUMBER CONFIGURATION

| DMS | - | B | - | C | - | M | - | B |
|---|---|---|---|---|---|---|---|---|
| SERIES | | WIRE RANGE # AWG | | CRIMP CONTACT | | CONTACT GENDER | | PACKING |
| **DMS** = *.100 [2.54] Plug Wire Housing* | | **B** = *#20~ #24* | | **C** = *Crimp contact* | | **F** = *Female* | | **R** = *Reel*<br>**B** = *Bag* |

## CRIMP TERMINAL

| PART NUMBER | PITCH | PLATING | PRODUCT DATA |
|---|---|---|---|
| DMS-B-C-F-B | .100" [2.54mm] | Tin | View |

## FEATURES & SPECIFICATIONS

### FEATURES:
.118” [3.0mm] pitch
Positions: 2 to 24
Single and dual row
Secure latching
Polarized anti-vibration design
Molded pegs

### SPECIFICATIONS:

**Material:**
Insulator: Nylon 66, rated UL94V-2 or UL94V-0
Insulator Color: Natural or black
Contacts: Brass, tin plated

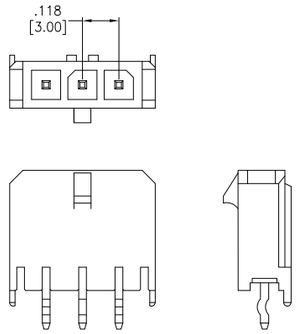
**Electrical:**
Operating voltage: 250V AC / DC max.
Current Rating: 5 Amps max.
Contact Resistance: 20 mohms max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1500V AC/DC for 1 minute

**Temperature Rating:**
Operating temperature range: -40°C to +105°C

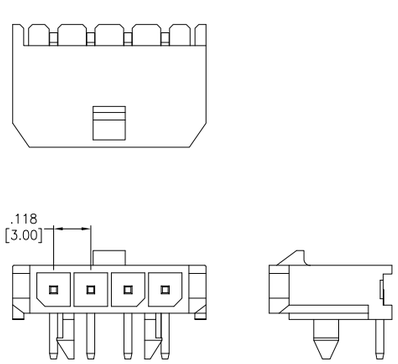
**PACKAGING:**
Anti-ESD plastic bags

**APPROVALS AND CERTIFICATIONS:**
UL Recognized File no. E224053

## SINGLE ROW, DIP

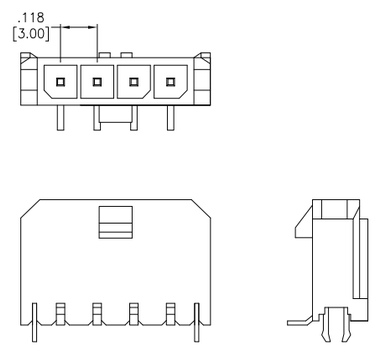



Vertical DIP

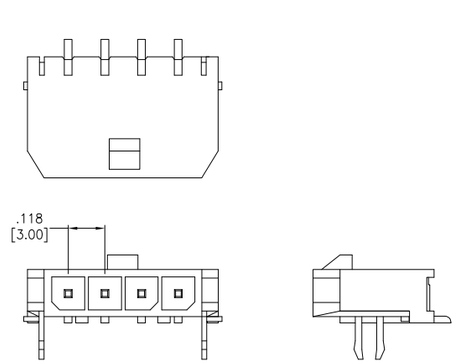



Right Angle DIP

## SINGLE ROW

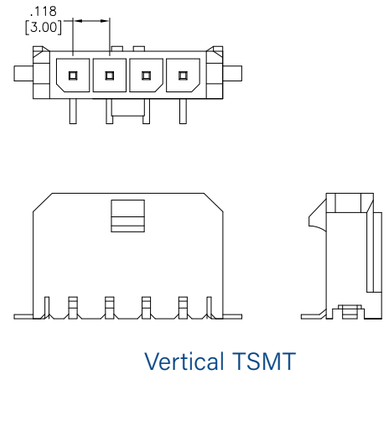



Vertical SMT




Right Angle SMT

| PART NUMBER | PITCH | NO. OF ROWS | MOUNTING ORIENTATION | MOUNTING | PLATING | PACKAGING | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| DML-06-A-H-T-A-TSMT-TR | .118" [3.00mm] | 2 | Right Angle | Surface Mount | Tin | Tape & Reel | View |
| DML-08-A-V-T-TSMT-PP-TR | .118" [3.00mm] | 2 | Vertical | Surface Mount | Tin | Tape & Reel | View |
| DML-1-XX-A-H-G-A-BL | .118" [3.00mm] | 1 | Right Angle | Through Hole | Gold | Bag | View |
| DML-1-XX-A-H-G-A-SMT-SBL-TR | .118" [3.00mm] | 1 | Right Angle | Surface Mount | Gold | Tape & Reel | View |
| DML-1-XX-A-H-MT-A-SMT-SBL-TR | .118" [3.00mm] | 1 | Right Angle | Surface Mount | Tin | Tape & Reel | View |
| DML-1-XX-A-H-T-A | .118" [3.00mm] | 1 | Right Angle | Through Hole | Tin | Bag | View |
| DML-1-XX-A-H-T-A-BL | .118" [3.00mm] | 1 | Right Angle | Through Hole | Tin | Bag | View |
| DML-1-XX-A-H-T-A-SMT-SBL | .118" [3.00mm] | 1 | Right Angle | Surface Mount | Tin | Bag | View |
| DML-1-XX-A-H-T-A-TSMT | .118" [3.00mm] | 1 | Right Angle | Surface Mount | Tin | | View |
| DML-1-XX-A-H-T-A-TSMT-TR | .118" [3.00mm] | 1 | Right Angle | Surface Mount | Tin | Tape & Reel | View |
| DML-1-XX-A-H-T-A-TSMT-WT | .118" [3.00mm] | 1 | Right Angle | Surface Mount | Tin | | View |
| DML-1-XX-A-V-G-A | .118" [3.00mm] | 1 | Vertical | Through Hole | Gold | Bag | View |
| DML-1-XX-A-V-T-A | .118" [3.00mm] | 1 | Vertical | Through Hole | Tin | Bag | View |
| DML-1-XX-A-V-T-A-SBL | .118" [3.00mm] | 1 | Vertical | Through Hole | Tin | Bag | View |
| DML-1-XX-A-V-T-A-SMT-SBL | .118" [3.00mm] | 1 | Vertical | Surface Mount | Tin | Tape & Reel | View |




Vertical TSMT

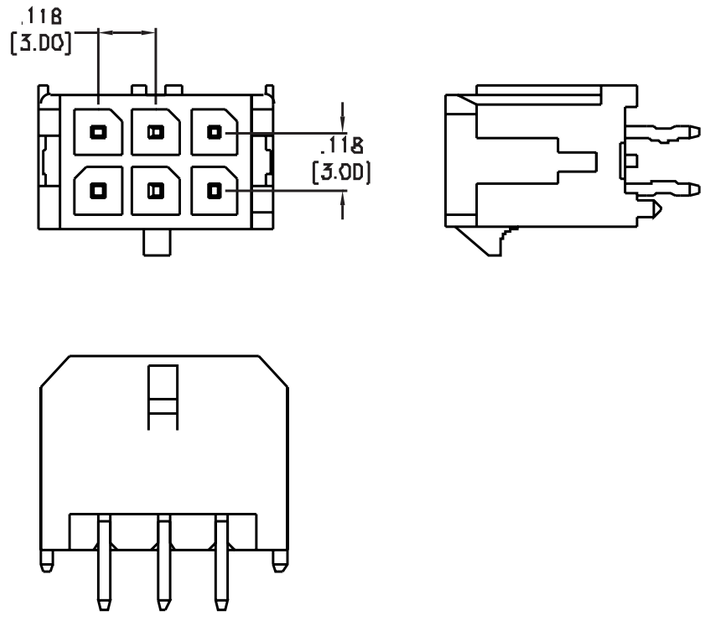
## PART NUMBER CONFIGURATION

DML - 1 - 24 - A - H - T - A - SMT - SBL - PP

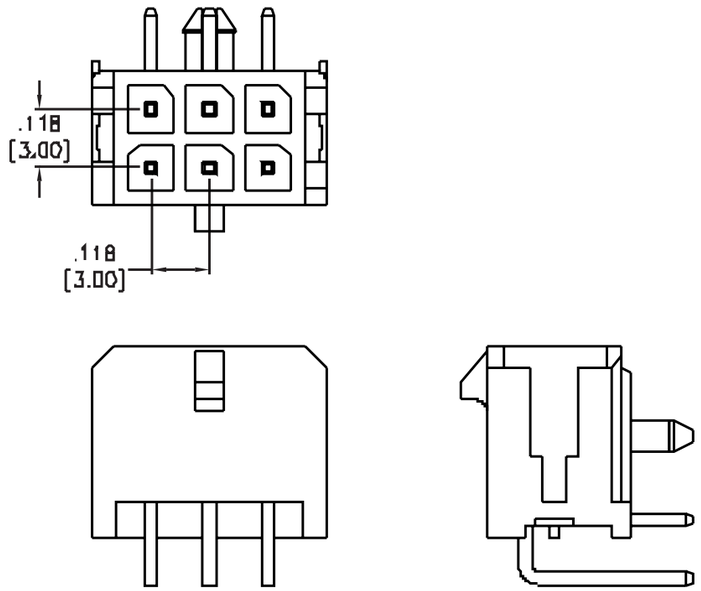
| SERIES | ROW TYPE | POSITIONS | HEADERS TYPE | MOUNTING TYPE | PLATING OPTIONS | UL94VX RATING | PCB CONTACT TYPE | PCB MOUNT TYPE | OPTIONS: |
|---|---|---|---|---|---|---|---|---|---|
| **DML** = *.118 [3.00mm] Pitch Connector Housings* | **Blank** = *Dual Row*<br>**1** = *Single Row* | **02** *Thru* **24** | **A** = *PCB Headers* | **H** = *Horizontal*<br>**V** = *Vertical* | **T** = *Tin*<br>**MT** = *Matte Tin*<br>**G** = *Full Gold*<br>**SG** = *Selective Gold (DIP Only)* | **A** = *V0*<br>**B** = *V2* | **Blank** = *DIP*<br>**SMT** = *Surface Mount*<br>**TSMT** = *True Surface Mount* | **Blank** = *Peg*<br>**BL** = *Boardlock*<br>**SBL** = *Short Boardlock*<br>**P** = *Peg*<br>**SBLP** = *Short Boardlock, Peg + Boardlock* | *Add designator(s) to end of part number*<br>**FL** = *Entry Flange Type*<br>**PP** = *Pick and Place Cap*<br>**T/R** = *Tape and Reel packaging* |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DML-1-XX-A-V-T-A-TSMT-PP-TR | .118" [3.00mm] | 1 | Vertical | Surface Mount | Tin | Bag | View |
| DML-1-XX-V-T-SMT | .118" [3.00mm] | 1 | Vertical | Surface Mount | Tin | Bag | View |
| DML-XX-A-H-G-A-BL | .118" [3.00mm] | 2 | Right Angle | Through Hole | Gold | Bag | View |
| DML-XX-A-H-G-A-SBL | .118" [3.00mm] | 2 | Right Angle | Through Hole | Gold | Bag | View |
| DML-XX-A-H-G-SMT-BL | .118" [3.00mm] | 2 | Right Angle | Surface Mount | Gold | Bag | View |
| DML-XX-A-H-G-SMT-BL-TR | .118" [3.00mm] | 2 | Right Angle | Surface Mount | Gold | Tape & Reel | View |
| DML-XX-A-H-MT-A-SBL | .118" [3.00mm] | 2 | Right Angle | Through Hole | Tin | Bag | View |
| DML-XX-A-H-T-A | .118" [3.00mm] | 2 | Right Angle | Through Hole | Tin | Bag | View |
| DML-XX-A-H-T-A-BL | .118" [3.00mm] | 2 | Right Angle | Through Hole | Tin | Bag | View |
| DML-XX-A-H-T-A-SBL | .118" [3.00mm] | 2 | Right Angle | Through Hole | Tin | Bag | View |
| DML-XX-A-H-T-A-TSMT | .118" [3.00mm] | 2 | Right Angle | Surface Mount | Tin | Bag | View |
| DML-XX-A-H-T-A-TSMT-PP-TR | .118" [3.00mm] | 2 | Right Angle | Surface Mount | Tin | Tape & Reel | View |
| DML-XX-A-H-T-A-TSMT-TR | .118" [3.00mm] | 2 | Right Angle | Surface Mount | Tin | Tape & Reel | View |
| DML-XX-A-H-T-SMT-BL | .118" [3.00mm] | 2 | Right Angle | Surface Mount | Tin | Bag | View |
| DML-XX-A-H-T-SMT-BL-TR | .118" [3.00mm] | 2 | Right Angle | Surface Mount | Tin | Tape & Reel | View |
| DML-XX-A-H-T-SMT-SBL-TR | .118" [3.00mm] | 2 | Right Angle | Surface Mount | Tin | Tape & Reel | View |
| DML-XX-A-V-G-A | .118" [3.00mm] | 2 | Vertical | Through Hole | Gold | Bag | View |
| DML-XX-A-V-G-A-6 | .118" [3.00mm] | 2 | Vertical | Through Hole | Gold | Bag | View |
| DML-XX-A-V-G-A-BL | .118" [3.00mm] | 2 | Vertical | Through Hole | Gold | Bag | View |
| DML-XX-A-V-G-SMT-SBL-PP-TR | .118" [3.00mm] | 2 | Vertical | Surface Mount | Gold | Tape & Reel | View |
| DML-XX-A-V-G-TSMT-TR | .118" [3.00mm] | 2 | Vertical | Surface Mount | Gold | Tape & Reel | View |
| DML-XX-A-V-MT-A | .118" [3.00mm] | 2 | Vertical | Through Hole | Tin | Bag | View |
| DML-XX-A-V-MT-A-BL | .118" [3.00mm] | 2 | Vertical | Through Hole | Tin | Bag | View |
| DML-XX-A-V-MT-A-P-BL | .118" [3.00mm] | 2 | Vertical | Through Hole | Tin | Bag | View |
| DML-XX-A-V-SG-A | .118" [3.00mm] | 2 | Vertical | Through Hole | Gold | Bag | View |
| DML-XX-A-V-T-A | .118" [3.00mm] | 2 | Vertical | Through Hole | Tin | Bag | View |
| DML-XX-A-V-T-A-BL | .118" [3.00mm] | 2 | Vertical | Through Hole | Tin | Bag | View |
| DML-XX-A-V-T-A-NP | .118" [3.00mm] | 2 | Vertical | Through Hole | Tin | Bag | View |
| DML-XX-A-V-T-A-P-SBL | .118" [3.00mm] | 2 | Vertical | Through Hole | Tin | Bag | View |
| DML-XX-A-V-T-A-SBL | .118" [3.00mm] | 2 | Vertical | Through Hole | Tin | Bag | View |
| DML-XX-A-V-T-SMT-BL | .118" [3.00mm] | 2 | Vertical | Surface Mount | Tin | Bag | View |
| DML-XX-A-V-T-SMT-BL-PP-TR | .118" [3.00mm] | 2 | Vertical | Surface Mount | Tin | Tape & Reel | View |
| DML-XX-A-V-T-SMT-SBL-PP-TR | .118" [3.00mm] | 2 | Vertical | Surface Mount | Tin | Tape & Reel | View |
| DML-XX-A-V-T-TSMT | .118" [3.00mm] | 2 | Vertical | Surface Mount | Tin | Bag | View |
| DML-XX-A-V-T-TSMT-PP-TR | .118" [3.00mm] | 2 | Vertical | Surface Mount | Tin | Tape & Reel | View |
| DML-XX-A-V-T-TSMT-TR | .118" [3.00mm] | 2 | Vertical | Surface Mount | Tin | Tape & Reel | View |
| DML-XX-B-H-T-A | .118" [3.00mm] | 2 | Right Angle | Through Hole | Tin | Bag | View |
| DML-XX-H-T-FL | .118" [3.00mm] | 2 | Right Angle | Through Hole | Tin | Bag | View |
| DML-XX-V-T-FL | .118" [3.00mm] | 2 | Vertical | Through Hole | Tin | Bag | View |

## DUAL ROW VERTICAL




## DUAL ROW RIGHT ANGLE



## FEATURES & SPECIFICATIONS

### FEATURES:
.118” [3.0mm] pitch
Positions: 2 to 24
Single and dual row
Secure latching
Polarized anti-vibration design
Molded pegs

### SPECIFICATIONS:

### Material:
Insulator: Nylon 66, rated UL94V-2 or UL94V-0
Insulator Color: Natural or black
Contacts: Brass, tin plated

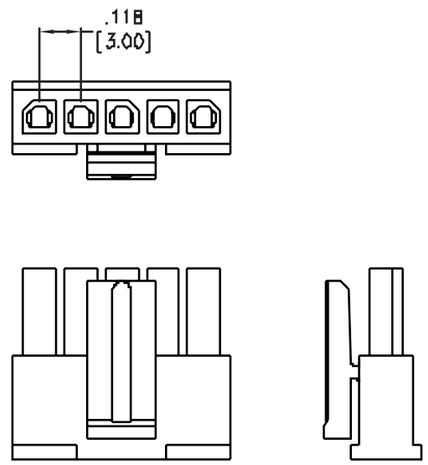
### Electrical:
Operating voltage: 250V AC / DC max.
Current Rating: 5 Amps max.
Contact Resistance: 20 mohms max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1500V AC/DC for 1 minute

### Temperature Rating:
Operating temperature range: -40°C to +105°

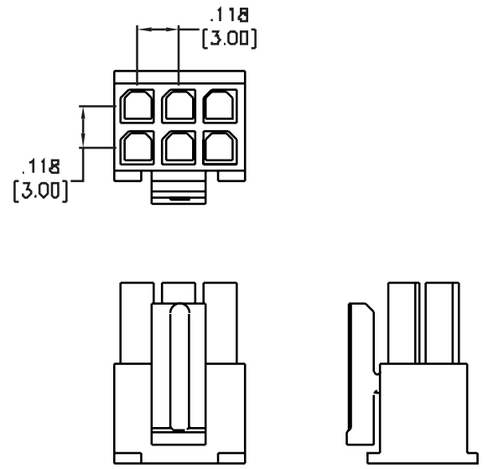
### PACKAGING:
Anti-ESD plastic bags

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### DMT SINGLE ROW




### DMT DUAL ROW




## HOUSING PART NUMBER CONFIGURATION

**DMT - 2 - XX**

| SERIES | HOUSING TYPE | POSITIONS |
|---|---|---|
| **DMT** = *.118" [3.00mm] Wire Crimp Housing, Male* | **1** = *Single row*<br>**2** = *Dual row* | *Single row:*<br>**02** ~**12**<br>*Dual row:*<br>**02** ~ **24** |

## HOUSINGS

| PART NUMBER | PITCH | NO. OF ROWS | PRODUCT DATA |
|---|---|---|---|
| DMT-1-XX | .118" [3.00mm] | 1 | View |
| DMT-2-XX | .118" [3.00mm] | 2 | View |

## CRIMP CONTACT PART NUMBER CONFIGURATION

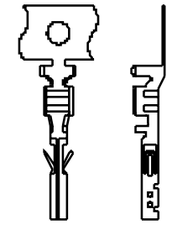
**DMT - B - C - F - T - R**

| SERIES | WIRE RANGE # AWG | CRIMP CONTACT | CONTACT GENDER | PLATING OPTIONS | PACKING |
|---|---|---|---|---|---|
| **DMT** = *.118 [3.00mm] Pitch Connector Housings* | **Blank** =<br>**A** = *#22 ~ #28*<br>**B** = *#18 ~ #24* | **C** = *Crimp contact* | **F** = *Female* | **T** = *Tin*<br>**MT** = *Matte Tin*<br>**G** = *Gold* | **R** = *Reel*<br>**B** = *Bag* |

## CRIMP TERMINALS

| PART NUMBER | PITCH | PLATING | PRODUCT DATA |
|---|---|---|---|
| DMT-X-C-F-G-R | .118" [3.00mm] | Gold | View |
| DMT-X-C-F-MT-R | .118" [3.00mm] | Tin | View |
| DMT-X-C-F-T-R | .118" [3.00mm] | Tin | View |

### DMT FEMALE CRIMP CONTACT



## FEATURES & SPECIFICATIONS

### FEATURES:
.137” [3.5mm] pitch
Positions: 4 to 24
Dual row
Secure latching
Polarized anti-vibration design
Molded pegs

### SPECIFICATIONS:

### Material:
Insulator: Nylon 66, rated UL94V-2 or UL94V-0
Insulator Color: Natural or black
Contacts: Brass, tin plated

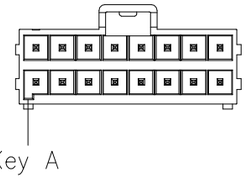
### Electrical:
Operating voltage: 600V AC / DC max.
Current Rating: 14 Amps max.
Contact Resistance: 15 mohms max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1800V AC/DC for 1 minute

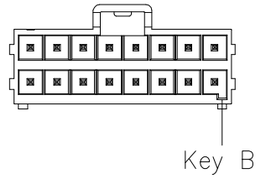
### Temperature Rating:
Operating temperature range: -40°C to +105°C

### PACKAGING:
Anti-ESD plastic bags

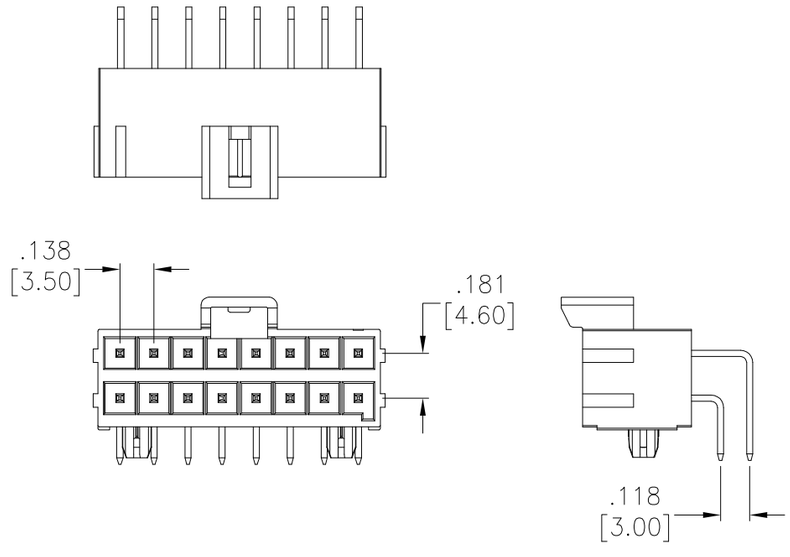
### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### POLARIZING KEY OPTIONS

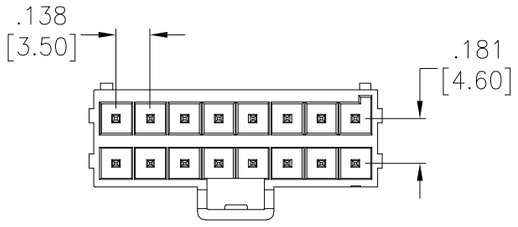


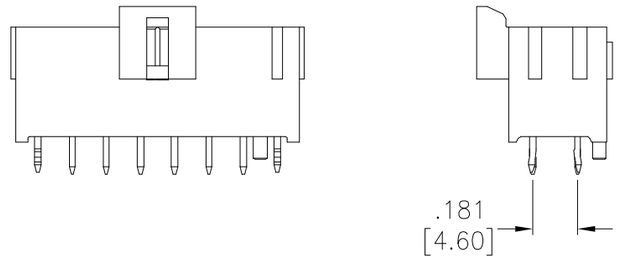




### DMD CONNECTOR




Right Angle




Vertical

## PART NUMBER CONFIGURATION

| DMD - | 12 - | A - | H - | T - | A - | HT |
|---|---|---|---|---|---|---|
| **SERIES** | **POSITIONS** | | **MOUNTING TYPE** | **PLATING OPTIONS** | **POLARIZING KEY** | |
| **DMD** = *.137" [3.50mm] Pitch Connectors* | **04** *Thru* **24** | | **H** = *Horizontal*<br>**V** = *Vertical* | **T** = *Tin*<br>**G** = *Gold* | **A** = *Left Side*<br>**B** = *Right Side* | |

| PART NUMBER | PITCH | NO. OF ROWS | MOUNTING ORIENTATION | MOUNTING | PLATING | PRODUCT DATA |
|---|---|---|---|---|---|---|
| DMD-XX-A1-H-T-X-HT | .137" [3.50mm] | 2 | Horizontal | Through Hole | Tin | View |
| DMD-XX-A-V-T-X-HT | .137" [3.50mm] | 2 | Vertical | Through Hole | Tin | View |

## FEATURES & SPECIFICATIONS

### FEATURES:
.137” [3.5mm] pitch
Positions: 4 to 24
Dual row
Secure latching
Polarized anti-vibration design
Molded pegs

### SPECIFICATIONS:

**Material:**
Insulator: Nylon 66, rated UL94V-2 or UL94V-0
Insulator Color: Natural or black
Contacts: Brass, tin plated

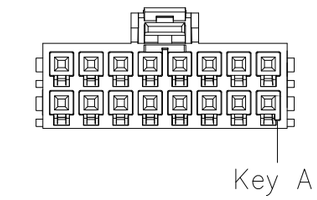
**Electrical:**
Operating voltage: 600V AC / DC max.
Current Rating: 14 Amps max.
Contact Resistance: 15 mohms max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1800V AC/DC for 1 minute

**Temperature Rating:**
Operating temperature range: -40°C to +105°C

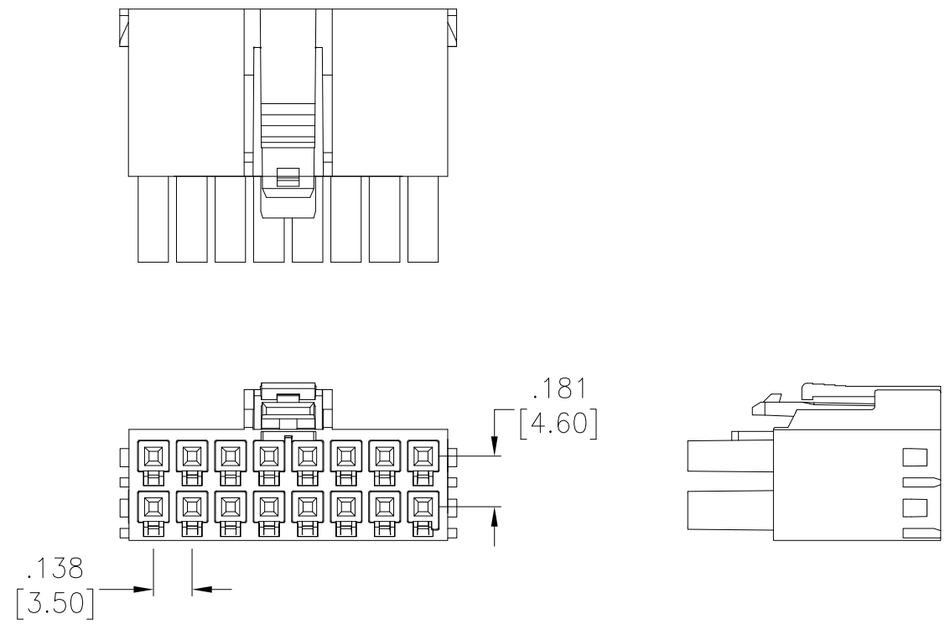
**PACKAGING:**
Anti-ESD plastic bags

**APPROVALS AND CERTIFICATIONS:**
UL Recognized File no. E224053

### POLARIZING KEY OPTIONS




### DMD HOUSING




### HOUSING

| PART NUMBER | PITCH | NO. OF ROWS | PRODUCT DATA |
|---|---|---|---|
| DMD-M1-XX-X | .137" [3.50mm] | 2 | View |

## HOUSING PART NUMBER CONFIGURATION

**DMD - M1 - 12 - A**

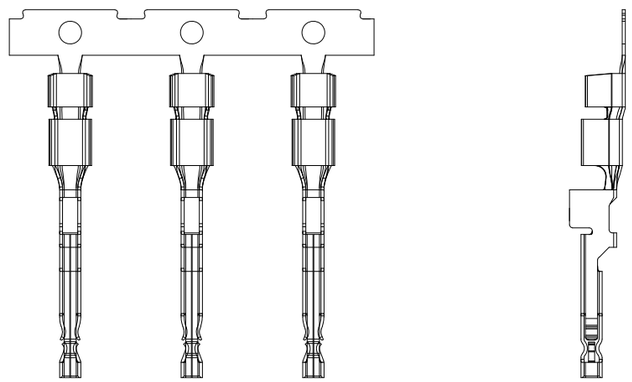
| SERIES | | POSITIONS | POLARIZING KEY |
|---|---|---|---|
| **DMD** = .137" [3.50mm] Pitch Connector | | **04** Thru **24** | **A** = Left Side<br>**B** = Right Side |

## CRIMP TERMINAL PART NUMBER CONFIGURATION

**DMD - M1C - C - T - R**

| SERIES | | CRIMP CONTACT | PLATING OPTIONS | |
|---|---|---|---|---|
| **DMD** = .137" [3.50mm] Pitch Connector | | **C** = Crimp contact | **T** = Tin<br>**G** = Gold | |

### DMD CRIMP TERMINAL



### CRIMP TERMINAL

| PART NUMBER | PITCH | PRODUCT DATA |
|---|---|---|
| DMD-M1C-C-X-R | .137" [3.50mm] | View |

## FEATURES & SPECIFICATIONS

### FEATURES:
.163” [4.14mm] pitch
Positions: 4 to 24
Dual row
Secure latching
Polarized anti-vibration design
Molded pegs

### SPECIFICATIONS:

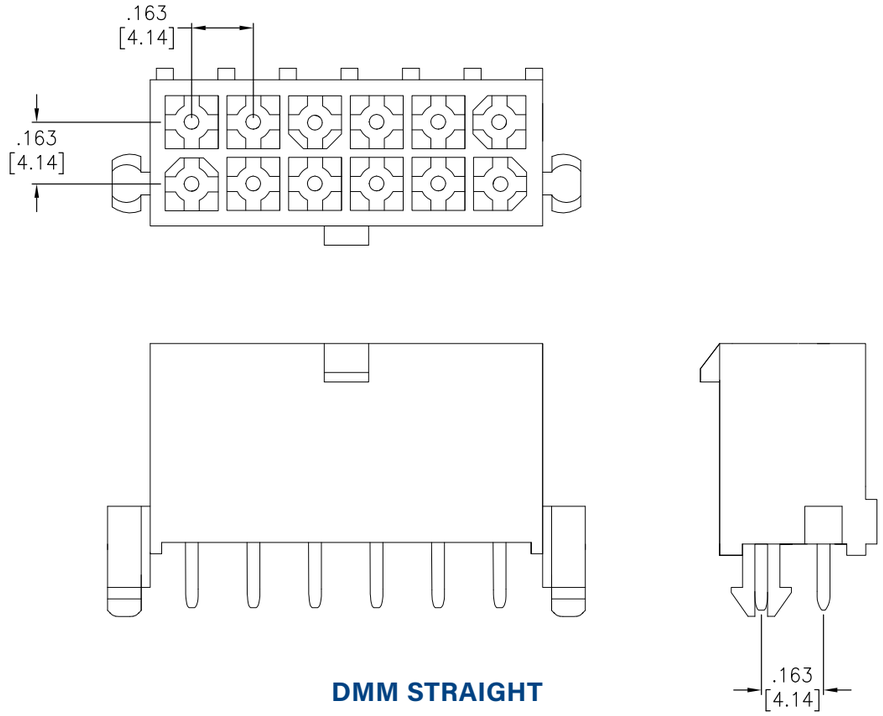
### Material:
Insulator: Nylon 66, rated UL94V-2 or UL94V-0
Insulator Color: Natural or black
Contacts: Brass, tin plated

### Electrical:
Operating voltage: 600V AC / DC max.
Current Rating: 5 Amps max.
Contact Resistance: 10 mohms max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1500V AC/DC for 1 minute

### Temperature Rating:
Operating temperature range: -40°C to +105°C

### PACKAGING:
Anti-ESD plastic bags

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

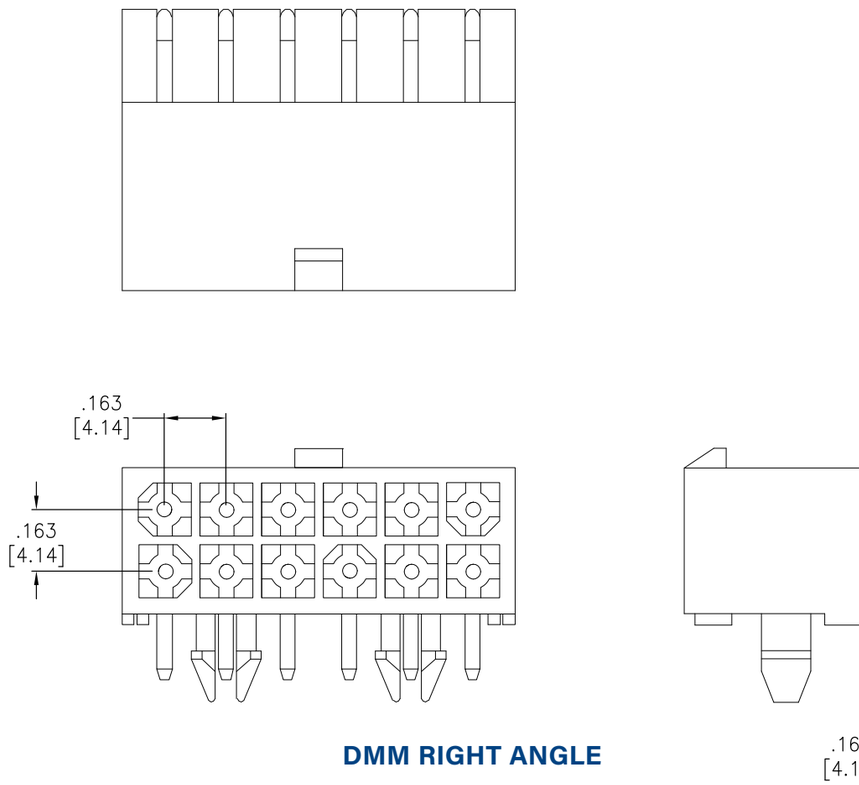



DMM STRAIGHT

## PART NUMBER CONFIGURATION

| DMM - | 12 - | R - | N - | P - | G - | V0 |
|---|---|---|---|---|---|---|
| **SERIES** | **POSITIONS** | **MOUNTING TYPE** | **LOCKING NOSE OPTION** | **PEG OPTIONS** | **PLATING OPTIONS** | **UL94VX RATING** |
| **DMM** = *.163 [4.14mm] Pitch Header* | **04** *Thru* **12** | **R** = *Right angle*<br>**S** = *Straight* | **N** = *W/ Nose* | **P** = *W/ Peg* | **Blank** = *Tin*<br>**MT** = *Matte Tin*<br>**G** = *Full Gold*<br>**SG** = *Selective Gold*<br>**SGM** = *Selective Gold / Matte Tin* | **Blank** = *V2*<br>**V0** = *V0* |

| PART NUMBER | PITCH | NO. OF ROWS | PRODUCT DATA |
|---|---|---|---|
| DMM-XX-R-N-P-MT-V0 | .163" [4.14mm] | 2 | View |
| DMM-XX-S-N-P-V0 | .163" [4.14mm] | 2 | View |
| DMM-XX-S-N-P1-V0 | .163" [4.14mm] | 2 | View |
| DMM-XX-S-N-P1-V0-HT | .163" [4.14mm] | 2 | View |




DMM RIGHT ANGLE

## FEATURES & SPECIFICATIONS

### FEATURES:
.163” [4.14mm] pitch
Positions: 2 to 24
Dual row
Secure latching
Polarized anti-vibration design
Molded pegs

### SPECIFICATIONS:

### Material:
Insulator: Nylon 66, rated UL94V-2 or UL94V-0
Insulator Color: Natural or black
Contacts: Brass, tin plated

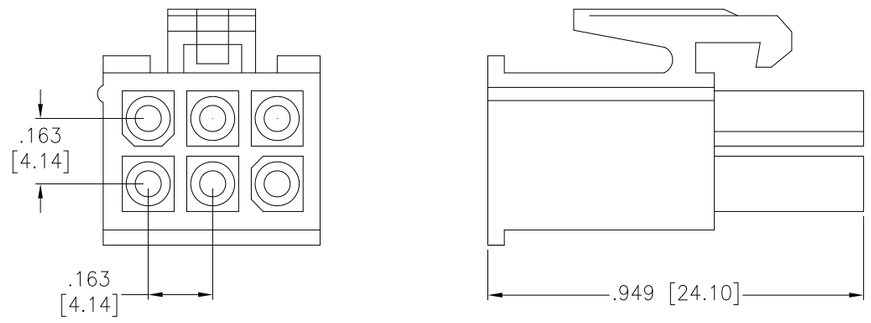
### Electrical:
Operating voltage: 600V AC / DC max.
Current Rating: 5 Amps max.
Contact Resistance: 10 mohms max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1500V AC/DC for 1 minute

### Temperature Rating:
Operating temperature range: -40°C to +105°C

### PACKAGING:
Anti-ESD plastic bags

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

DMW CRIMP HOUSING

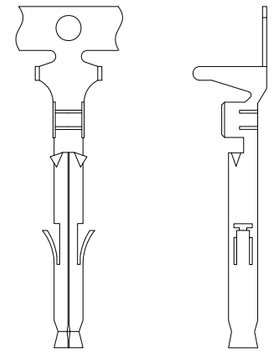



## HOUSING

| PART NUMBER | PITCH | HOUSEING TYPE | PRODUCT DATA |
|---|---|---|---|
| DMW-XX | .163" [4.14mm] | Plug | View |

## HOUSING PART NUMBER CONFIGURATION

| DMW | - | 12 |
|---|---|---|
| SERIES | | POSITIONS |
| **DMW** = .163" [4.14mm] Housing | | **04** Thru **12** |



DMW FEMALE CRIMP CONTACT

## CRIMP CONTACT

| PART NUMBER | PITCH | TERMINAL TYPE | PLATING | PRODUCT DATA |
|---|---|---|---|---|
| DMW-X-C-F-R | .163" [4.14mm] | Female | Tin | View |

## CRIMP CONTACT PART NUMBER CONFIGURATION

| DMW | - | B | - | C | - | M | - | R |
|---|---|---|---|---|---|---|---|---|
| SERIES | | WIRE RANGE # AWG | | CRIMP CONTACT | | CONTACT GENDER | | PACKING |
| **DMW** = .163" [4.14mm] Wire To Wire System | | **A** = #18~ #24<br>**B** = #22~ #26<br>**C** = #16 | | **C** = Crimp contact | | **F** = Female | | **R** = Reel |

## FEATURES & SPECIFICATIONS

### FEATURES:
.165" [4.2mm] pitch
Positions: 2 to 24
Dual row
Polarized anti-vibration design

### SPECIFICATIONS:

**Material:**
Insulator: Nylon 66, rated UL94V-0
Insulator Color: Natural or black
Contacts: Brass, tin plated

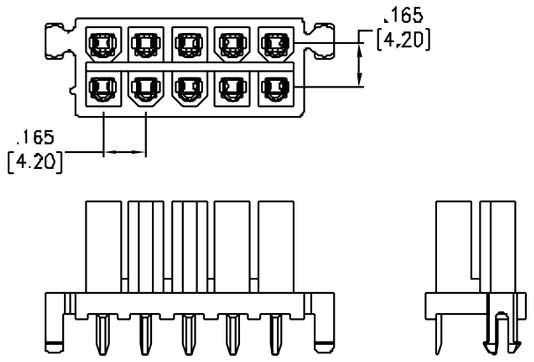
**Electrical:**
Operating voltage: 600V AC / DC max.
Current Rating: 9 Amps max
Contact Resistance: 20 mohms max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1500V for 1 minute

**Temperature Rating:**
Operating temperature range: -40°C to +105°C

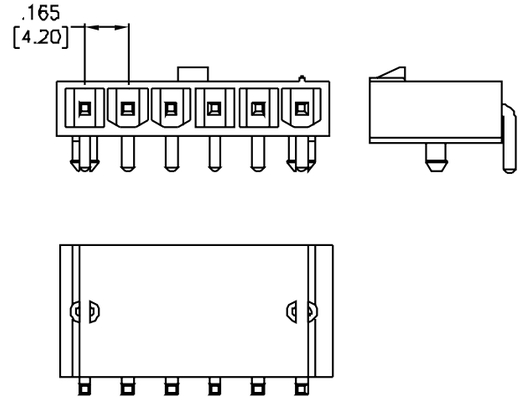
**PACKAGING:**
Anti-ESD plastic bags

**APPROVALS AND CERTIFICATIONS:**
UL Recognized File no. E224053

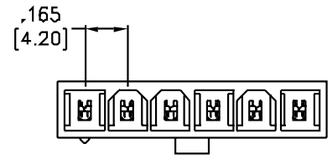
### DMF PCB RECEPTACLE

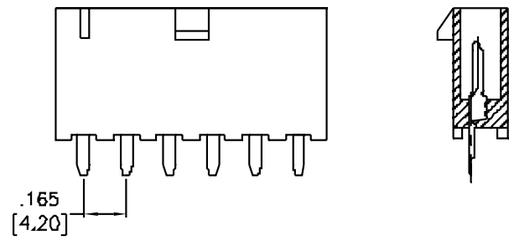



### DMF SINGLE ROW R/A HEADER

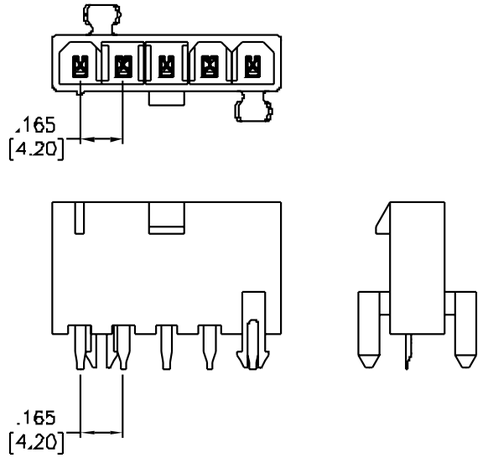



### DMF SINGLE ROW VERTICAL HEADER




### DMF SINGLE ROW VERTICAL HEADER WITH PEGS




## SINGLE ROW PCB HEADERS PART NUMBER CONFIGURATION

**DMF - 12 - A - VS - T - P - V0**

| SERIES | POSITIONS | MOUNTING TYPE | NO. OF ROWS | PLATING: | PEG OPTION | UL94VX RATING |
|---|---|---|---|---|---|---|
| **DMF** = .165" [4.2mm] Pitch Header | **02** Thru **12** | **A** = Female PCB Vertical<br>**A1** = Female PCB Right Angle | **VS** = Vertical Single<br>**RS** = Right Angle Single | **T** = Tin<br>**MT** = Matte Tin<br>**SG** = Selective Gold<br>**G** = Gold | **Blank** = No Peg<br>**P** = W/Peg | **Blank** = V2<br>**V0** = V0 |

## DUAL ROW PCB HEADERS & RECEPTACLE PART NUMBER CONFIGURATION

**DMF - 12 - R - F - T - P - F - V0 - HT**

| SERIES | POSITIONS | MOUNTING TYPE | FLANGE OPTION | PLATING: | PEG OPTION | FLANGE OPTION | UL94VX RATING | HIGH TEMP |
|---|---|---|---|---|---|---|---|---|
| **DMF** = .165" [4.2mm] Pitch Header | **02** Thru **24** | **R** = Female PCB Vertical<br>**R1** = Female PCB Right Angle | **Blank** = Straight Type Right Angle Type<br>**N** = No Flange<br>**F** = W/Flange | **T** or **Blank** = Tin<br>**MT** = Matte Tin<br>**SG** = Selective Gold<br>**G** = Gold | **Blank** = No Peg<br>**P** = W/Peg | **Blank** = No Flange<br>**F** = Mounting Flange | **Blank** = V2<br>**V0** = V0 | **Blank** = Normal Temp<br>**HT** = High Temp |

## DMF SINGLE ROW HEADER

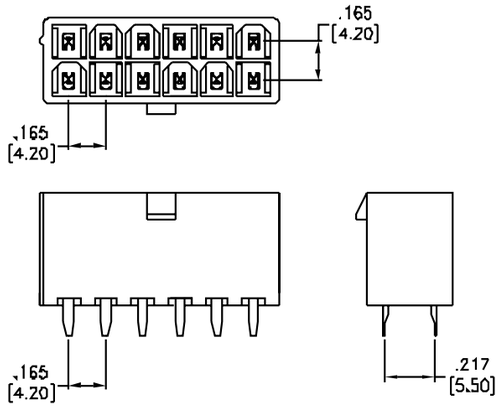
| PART NUMBER | PITCH | NO. OF ROWS | PRODUCT DATA |
|---|---|---|---|
| DMF-XX-A-VS-T | .165" [4.20mm] | 1 | View |
| DMF-XX-A-VS-T-V0 | .165" [4.20mm] | 1 | View |
| DMF-XX-A-VS-T-P | .165" [4.20mm] | 1 | View |
| DMF-XX-A-VS-MT-P-V0 | .165" [4.20mm] | 1 | View |
| DMF-XX-A-VS-G-P-V0 | .165" [4.20mm] | 1 | View |
| DMF-XX-A1-RS-T | .165" [4.20mm] | 1 | View |
| DMF-XX-A1-RS-T-P | .165" [4.20mm] | 1 | View |
| DMF-XX-A1-RS-T-NR | .165" [4.20mm] | 1 | View |

## DMF DUAL ROW HEADERS

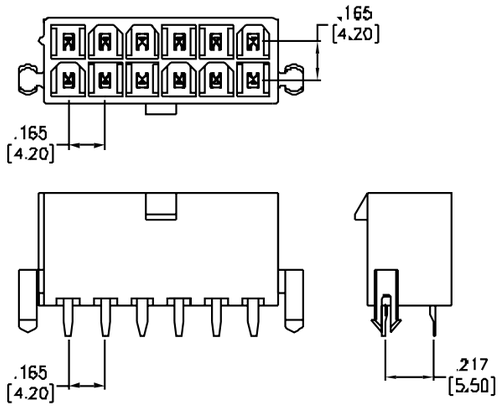
| PART NUMBER | PITCH | NO. OF ROWS | PRODUCT DATA |
|---|---|---|---|
| DMF-XX-R-F | .165" [4.20mm] | 2 | View |
| DMF-XX-R-F-V0 | .165" [4.20mm] | 2 | View |
| DMF-XX-R-N | .165" [4.20mm] | 2 | View |
| DMF-XX-R-N-G | .165" [4.20mm] | 2 | View |
| DMF-XX-R-N-G-V0 | .165" [4.20mm] | 2 | View |
| DMF-XX-R-N-HT | .165" [4.20mm] | 2 | View |
| DMF-XX-R-N-MT | .165" [4.20mm] | 2 | View |
| DMF-XX-R-N-MT-BK-V0 | .165" [4.20mm] | 2 | View |
| DMF-XX-R-N-P | .165" [4.20mm] | 2 | View |
| DMF-XX-R-N-P-BK | .165" [4.20mm] | 2 | View |
| DMF-XX-R-N-P-BK-V0 | .165" [4.20mm] | 2 | View |
| DMF-XX-R-N-P-G | .165" [4.20mm] | 2 | View |
| DMF-XX-R-N-P-MT | .165" [4.20mm] | 2 | View |
| DMF-XX-R-N-P-MT-V0 | .165" [4.20mm] | 2 | View |
| DMF-XX-R-N-P-MT-V0-HT | .165" [4.20mm] | 2 | View |
| DMF-XX-R-N-P-V0 | .165" [4.20mm] | 2 | View |
| DMF-XX-R-N-V0 | .165" [4.20mm] | 2 | View |
| DMF-XX-R-N-V0-HT | .165" [4.20mm] | 2 | View |
| DMF-XX-R1-N-P | .165" [4.20mm] | 2 | View |
| DMF-XX-S | .165" [4.20mm] | 2 | View |
| DMF-XX-S-BK | .165" [4.20mm] | 2 | View |
| DMF-XX-S-G | .165" [4.20mm] | 2 | View |

| PART NUMBER | PITCH | NO. OF ROWS | PRODUCT DATA |
|---|---|---|---|
| DMF-XX-S-G-V0 | .165" [4.20mm] | 2 | View |
| DMF-XX-S-G30-P-V0 | .165" [4.20mm] | 2 | View |
| DMF-XX-S-G30-V0 | .165" [4.20mm] | 2 | View |
| DMF-XX-S-MT | .165" [4.20mm] | 2 | View |
| DMF-XX-S-MT-BK-V0 | .165" [4.20mm] | 2 | View |
| DMF-XX-S-MT-HT | .165" [4.20mm] | 2 | View |
| DMF-XX-S-NDH | .165" [4.20mm] | 2 | View |
| DMF-XX-S-P | .165" [4.20mm] | 2 | View |
| DMF-XX-S-P-MT | .165" [4.20mm] | 2 | View |
| DMF-XX-S-P-NDH | .165" [4.20mm] | 2 | View |
| DMF-XX-S-P-NDH-V0 | .165" [4.20mm] | 2 | View |
| DMF-XX-S-P-SG-30-V0 | .165" [4.20mm] | 2 | View |
| DMF-XX-S-P-V0 | .165" [4.20mm] | 2 | View |
| DMF-XX-S-SG-NDH-V0 | .165" [4.20mm] | 2 | View |
| DMF-XX-S-SG-V0 | .165" [4.20mm] | 2 | View |
| DMF-XX-S-SQT-NDH | .165" [4.20mm] | 2 | View |
| DMF-XX-S-SQT-NDH-NY46-V0 | .165" [4.20mm] | 2 | View |
| DMF-XX-S-SQT-NDH-V0 | .165" [4.20mm] | 2 | View |
| DMF-XX-S-SQT-NDH-V0-HT | .165" [4.20mm] | 2 | View |
| DMF-XX-S-V0 | .165" [4.20mm] | 2 | View |
| DMF-XX-S-V0-BK | .165" [4.20mm] | 2 | View |

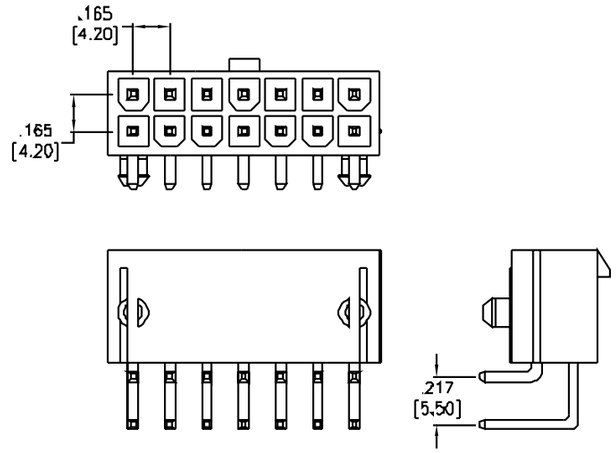
## DMF DUAL ROW VERTICAL HEADER WITH PEGS



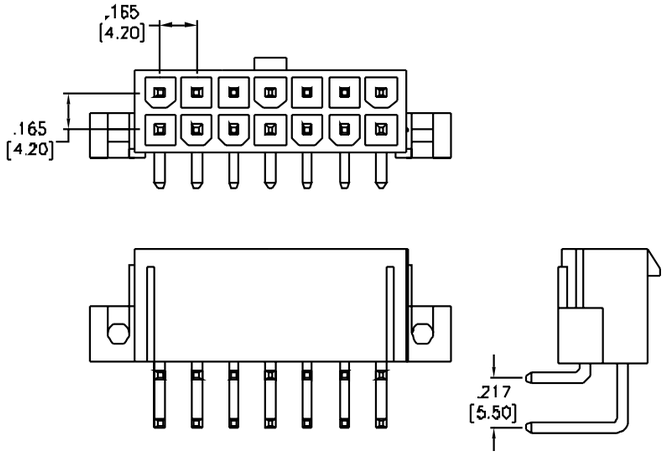

## DMF DUAL ROW VERTICAL HEADER WITH PEGS




## DMF DUAL R/A HEADER




## DMF DUAL R/A HEADER W/FLANGE



# Wire to Board Power Connectors and Systems

.165" [4.2MM] WIRE HOUSING & CRIMP TERMINALS

## FEATURES & SPECIFICATIONS

### FEATURES:

.165" [4.2mm] pitch
Positions: 2 to 24
Single and dual row
Polarized anti-vibration design

### SPECIFICATIONS:

**Material:**
Insulator: Nylon 66, rated UL94V-0
Insulator Color: Natural or black
Contacts: Brass, tin plated

**Electrical:**
Operating voltage: 600V AC / DC max.
Current Rating: 9 Amps max.
Contact Resistance: 20 mohms max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1500V AC/DC for 1 minute

**Temperature Rating:**
Operating temperature range: -40°C to +105°C

**PACKAGING:**
Anti-ESD plastic bags
Crimp contacts supplied on Reels

**APPROVALS AND CERTIFICATIONS:**
UL Recognized File no. E224053

## WIRE RECEPTACLE HOUSING PART NUMBER CONFIGURATION

**DMH - XX - S - V0 - BK**

| SERIES | POSITIONS | NO. OF ROWS | UL94VX RATING | OPTIONAL COLOR |
|---|---|---|---|---|
| **DMH** = *.165 [4.20mm] Pitch Crimp Housings* | *Single Row:* **02** *Thru* **06** *Dual Row:* **02** *Thru* **24** | **Blank** = *Dual row* **S** = *Single row* | **Blank** = *UL94V2* **V0** = *UL94V0* | **Blank** = *Natural* **BK** = *Black* |

## WIRE FEMALE CRIMP PART NUMBER CONFIGURATION

**DMH - A2 - C - F - T - R**

| SERIES | WIRE SIZE | CRIMP CONTACT | CONTACT GENDER | PLATING | PACKAGING |
|---|---|---|---|---|---|
| **DMH** = *.165 [4.20mm] Pitch Crimp Contacts* | **A2** = *22 ~ 28 Awg* **B2** = *18 ~ 24 Awg* **C2** = *16 Awg* | **C** = *Crimp contact* | **F** = *Female* | **T** = *Tin* **MT** = *Matte Tin* **G** = *Gold* | **R** = *Reel* |

## WIRE PLUG HOUSING PART NUMBER CONFIGURATION

**DMF - XX - W - S - NE - V0 - BK**

| SERIES | POSITIONS | TYPE | NO. OF ROWS | PANEL MOUNT | UL94VX RATING | OPTIONAL COLOR |
|---|---|---|---|---|---|---|
| **DMF** = *.165 [4.20mm] Pitch Crimp Housings* | *Single Row:* **02** *Thru* **12** *Dual Row:* **02** *Thru* **24** | **W** | **Blank** = *Dual row* **S** = *Single row* | **Blank** = *W/Ears* **NE** = *No Ears* | **Blank** = *V2* **V0** = *V0* | **Blank** = *Natural* **BK** = *Black* |

## WIRE MALE CRIMP PART NUMBER CONFIGURATION

**DMF - X - C - M - G - R**

| SERIES | WIRE SIZE | CRIMP CONTACT | CONTACT GENDER | PLATING | PACKAGING |
|---|---|---|---|---|---|
| **DMF** = *.165 [4.20mm] Pitch Crimp Contacts* | **A2** = *22 ~ 28 Awg* **B2** = *18 ~ 24 Awg* **C2** = *16 Awg* | **C** = *Crimp contact* | **M** = *Male* | **T** = *Tin* **MT** = *Matte Tin* **G** = *Gold* | **R** = *Reel* |

## DMH WIRE RECEPTACLE HOUSINGS

| PART NUMBER | PITCH | NO. OF ROWS | PRODUCT DATA |
|---|---|---|---|
| DMH-XX | .165" [4.20mm] | 2 | View |
| DMH-XX-BK | .165" [4.20mm] | 2 | View |
| DMH-XX-V0 | .165" [4.20mm] | 2 | View |
| DMH-XX-V0-BK | .165" [4.20mm] | 2 | View |
| DMH-XX-S | .165" [4.20mm] | 1 | View |
| DMH-XX-S-V0 | .165" [4.20mm] | 1 | View |

## DMH FEMALE CRIMP

| PART NUMBER | PITCH | PLATING | PRODUCT DATA |
|---|---|---|---|
| DMH-X2-C-F-T-R | .165" [4.20mm] | Tin | View |
| DMH-X2-C-F-G-R | .165" [4.20mm] | Gold | View |
| DMH-X2-C-F-MT-R | .165" [4.20mm] | Matte Tin | View |

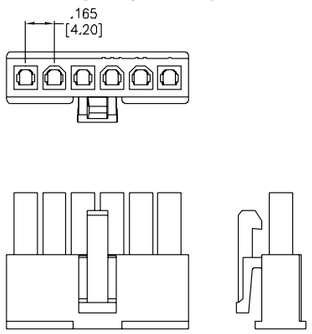
## DMF WIRE PLUG HOUSINGS

| PART NUMBER | PITCH | NO. OF ROWS | PRODUCT DATA |
|---|---|---|---|
| DMF-XX-W-S | .165" [4.20mm] | 1 | View |
| DMF-XX-W-S-V0 | .165" [4.20mm] | 1 | View |
| DMF-XX-W-S-NE | .165" [4.20mm] | 1 | View |
| DMF-XX-W-S-NE-V0 | .165" [4.20mm] | 1 | |
| DMF-XX-W | .165" [4.20mm] | 2 | View |
| DMF-XX-W-V0 | .165" [4.20mm] | 2 | View |
| DMF-XX-W-NE | .165" [4.20mm] | 2 | View |
| DMF-XX-W-NE-V0 | .165" [4.20mm] | 2 | View |

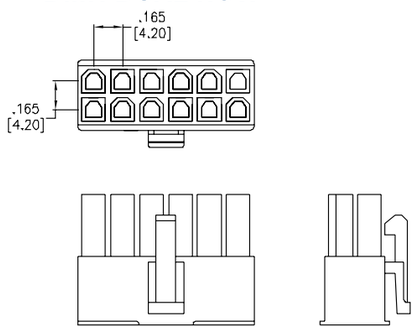
## DMF MALE CRIMP

| PART NUMBER | PITCH | PLATING | PRODUCT DATA |
|---|---|---|---|
| DMF-X-C-M-R | .165" [4.20mm] | Tin | View |
| DMF-X-C-M-G-R | .165" [4.20mm] | Gold | View |
| DMF-X-C-M-MT-R | .165" [4.20mm] | Matte Tin | View |

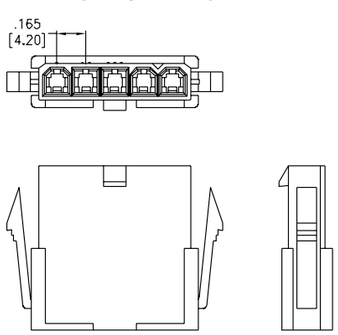
### DMH SINGLE ROW



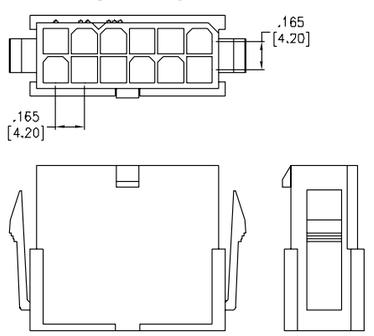

### DMH DUAL ROW



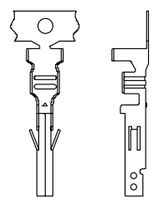

### DMF SINGLE ROW



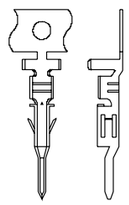

### DMF DUAL ROW




### DMH FEMALE CRIMP



### DMF MALE CRIMP



# Wire to Board Power Connectors and Systems

.165" [4.2MM] BLIND MATE WIRE HOUSING & HEADER

## FEATURES & SPECIFICATIONS

### FEATURES:
.165" [4.2mm] pitch
Positions: 2 to 24
Dual row
Polarized anti-vibration design

### SPECIFICATIONS:

### Material:
Insulator: Nylon 66, rated UL94V-0
Insulator Color: Natural or black
Contacts: Brass, tin plated, (Gold Optional)

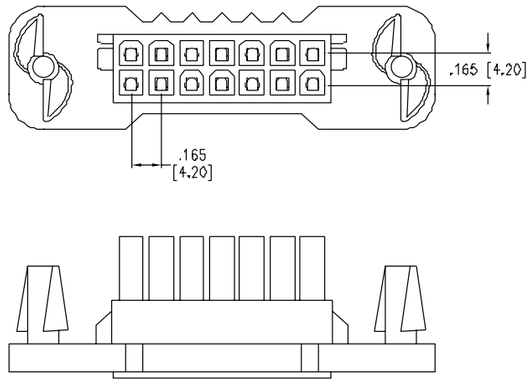
### Electrical:
Operating voltage: 600V AC / DC max.
Current Rating: Awg dependent
Contact Resistance: 20 mohms max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1500V AC/DC for 1 minute

### Temperature Rating:
Operating temperature range: -40°C to +105°C

### PACKAGING:
Anti-ESD plastic bags

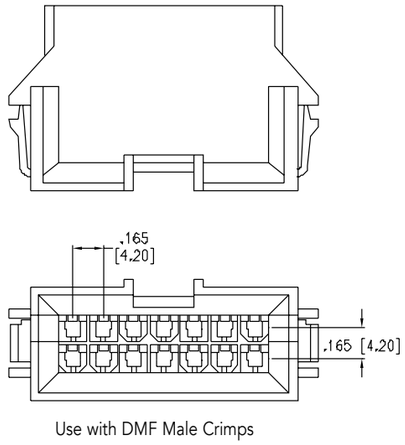
### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

## DMY WIRE RECEPTACLE HOUSING



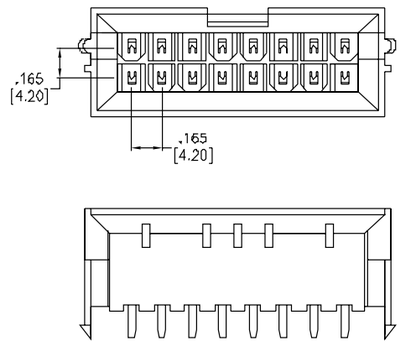

Use with DMH Female Crimps

## DMF WIRE PLUG HOUSING

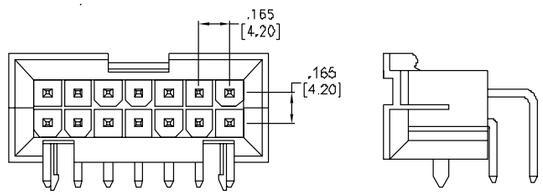



Use with DMF Male Crimps

## DMX VERTICAL HEADER




## DMX R/A HEADER




## WIRE RECEPTACLE HOUSING PART NUMBER CONFIGURATION

**DMY - B - XX - V0**

| SERIES | TYPE | POSITIONS | UL94VX RATING |
|---|---|---|---|
| **DMy** = *.165 [4.20mm] Pitch Blind Mate Wire Receptacle Housing* | **B** = *Type B* | **02** *Thru* **24** | **V0** = *UL94V0* |

## WIRE PLUG HOUSING PART NUMBER CONFIGURATION

**DMF - XX - WB - PM - V0**

| SERIES | POSITIONS | TYPE | PANEL MOUNT | UL94VX RATING |
|---|---|---|---|---|
| **DMY** = *.165 [4.20mm] Pitch Blind Mate Wire Plug Housing* | **02** *Thru* **24** | **WB** = *Type* | **PM** = *Panel Mount* | **V0** = *UL94V0* |

## PCB HEADERS PART NUMBER CONFIGURATION

**DMX - XX - RA - P - G - A - V0**

| SERIES | POSITIONS | MOUNTING TYPE | | PLATING | | UL94VX RATING |
|---|---|---|---|---|---|---|
| **DMF** = *.165 [4.20mm] Blind Mate PCB Header* | **02** *Thru* **24** | **A** = *Vertical Mount*<br>**RA** = *Right Angle* | **Blank** = *No Peg*<br>**P** = *W/ Peg* | **Blank** = *Tin*<br>**G** = *Gold* | **Blank** = *Vertical*<br>**A** = *Right Angle* | **V0** = *UL94V0* |

## DMY WIRE RECEPTACLE HOUSING

| PART NUMBER | PITCH | NO. OF ROWS | PRODUCT DATA |
|---|---|---|---|
| DMY-B-XX-V0 | .165" [4.20mm] | 2 | View |

## DMF WIRE PLUG HOUSING

| PART NUMBER | PITCH | NO. OF ROWS | PRODUCT DATA |
|---|---|---|---|
| DMF-XX-WB-PM | .165" [4.20mm] | 2 | View |
| DMF-XX-WB-PM-V0 | .165" [4.20mm] | 2 | View |

## DMX HEADERS

| PART NUMBER | PITCH | NO. OF ROWS | MOUNTING ORIENTATION | MOUNTING | PLATING | PACKAGING | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| DMX-XX-A-V0 | .165" [4.20mm] | 2 | Vertical | Through Hole | Tin | Bag | View |
| DMX-XX-RA-P-A-V0 | .165" [4.20mm] | 2 | Right Angle | Through Hole | Tin | Bag | View |
| DMX-XX-RA-P-G-V0 | .165" [4.20mm] | 2 | Right Angle | Through Hole | Gold | Bag | View |
| DMX-XX-RA-P-MT-V0 | .165" [4.20mm] | 2 | Right Angle | Through Hole | Matte Tin | Bag | View |

## FEATURES & SPECIFICATIONS

### FEATURES:
.250” [6.35mm] pitch
Positions: 2 to 15
Single and matrix row
Secure latching
Polarized anti-vibration design
Molded pegs

### SPECIFICATIONS:

### Material:
Insulator: Nylon 66, rated UL94V-2 or UL94V-0
Insulator Color: Natural or black
Contacts: Brass, tin plated

### Electrical:
Operating voltage: 600V AC / DC max.
Current Rating: 11~13 Amps max. (wire dependent)
Contact Resistance: 10 mohms max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 5000V AC/DC for 1 minute

### Temperature Rating:
Operating temperature range: Varies by connector style

### PACKAGING:
Anti-ESD plastic bags

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

## PCB HEADER PART NUMBER CONFIGURATION

| DME | - F | - XX | - S | - S | - P | - SQ |
|---|---|---|---|---|---|---|
| **SERIES** | **TYPE** | **POSITIONS** | **MOUNTING ANGLE** | **ROW OPTION** | **LOCKING OPTION** | **ROW ASSIGNMENT** |
| **DME** = *.250 [6.35mm] Pitch Connector PCB Housings* | **Blank** = *Male Pin*<br>**F**= *Female Pin* | **02 ~ 15** | **S & S2** = *Straight* | **S** = *Single Row* | **Blank** = *non*<br>**P** = *W/ Polarizing*<br>**E** = *W/ Ears* | **SQ**= *Matrix Row* |

| PART NUMBER | PITCH | NO. OF ROWS | MOUNTING ORIENTATION | MOUNTING | PLATING | PACKAGING | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| DME-F-XX-RA-E-V0 | .250" [6.35mm] | 1 | Right Angle | Through Hole | Tin | Bag | View |
| DME-F-XX-S-P-S | .250" [6.35mm] | 1 | Vertical | Through Hole | Tin | Bag | View |
| DME-F-XX-S-P-S-NDH-V0 | .250" [6.35mm] | 1 | Vertical | Through Hole | Tin | Bag | View |
| DME-F-XX-S-P-S-V0 | .250" [6.35mm] | 1 | Vertical | Through Hole | Tin | Bag | View |
| DME-F-XX-S-P-SQ | .250" [6.35mm] | 3 | Vertical | Through Hole | Tin | Bag | View |
| DME-F-XX-S-P-SQ-G-V0 | .250" [6.35mm] | 3 | Vertical | Through Hole | Gold | Bag | View |
| DME-F-XX-S-P-SQ-SG-V0 | .250" [6.35mm] | 3 | Vertical | Through Hole | Selective Gold | Bag | View |
| DME-F-XX-S-P-SQ-V0 | .250" [6.35mm] | 3 | Vertical | Through Hole | Tin | Bag | View |
| DME-F-XX-S-S | .250" [6.35mm] | 1 | Vertical | Through Hole | Tin | Bag | View |
| DME-F-XX-S-S-G-V0 | .250" [6.35mm] | 1 | Vertical | Through Hole | Gold | Bag | View |
| DME-F-XX-S-S-V0 | .250" [6.35mm] | 1 | Vertical | Through Hole | Tin | Bag | View |
| DME-F-XX-S-SQ | .250" [6.35mm] | 3 | Vertical | Through Hole | Tin | Bag | View |
| DME-F-XX-S-SQ-G-V0 | .250" [6.35mm] | 3 | Vertical | Through Hole | Gold | Bag | View |
| DME-F-XX-S-SQ-G-V0-50 | .250" [6.35mm] | 3 | Vertical | Through Hole | Gold | Bag | View |
| DME-F-XX-S-SQ-V0 | .250" [6.35mm] | 3 | Vertical | Through Hole | Tin | Bag | View |
| DME-F-XX-S2-P-S | .250" [6.35mm] | 1 | Vertical | Through Hole | Tin | Bag | View |
| DME-F-XX-S2-P-S-V0 | .250" [6.35mm] | 1 | Vertical | Through Hole | Tin | Bag | View |
| DME-F-XX-S2-P-SQ | .250" [6.35mm] | 3 | Vertical | Through Hole | Tin | Bag | View |
| DME-F-XX-S2-P-SQ-V0 | .250" [6.35mm] | 3 | Vertical | Through Hole | Tin | Bag | View |
| DME-F-XX-S2-S | .250" [6.35mm] | 1 | Vertical | Through Hole | Tin | Bag | View |
| DME-F-XX-S2-S-V0 | .250" [6.35mm] | 1 | Vertical | Through Hole | Tin | Bag | View |
| DME-F-XX-S2-SQ | .250" [6.35mm] | 3 | Vertical | Through Hole | Tin | Bag | View |
| DME-F-XX-S2-SQ-V0 | .250" [6.35mm] | 3 | Vertical | Through Hole | Tin | Bag | View |
| DME-XX-S-P-S | .250" [6.35mm] | 1 | Vertical | Through Hole | Tin | Bag | View |
| DME-XX-S-P-S-G-V0 | .250" [6.35mm] | 1 | Vertical | Through Hole | Gold | Bag | View |
| DME-XX-S-P-SQ | .250" [6.35mm] | 3 | Vertical | Through Hole | Tin | Bag | View |
| DME-XX-S-P-SQ-BK | .250" [6.35mm] | 3 | Vertical | Through Hole | Tin | Bag | View |
| DME-XX-S-P-SQ-V0 | .250" [6.35mm] | 3 | Vertical | Through Hole | Tin | Bag | View |
| DME-XX-S-S | .250" [6.35mm] | 1 | Vertical | Through Hole | Tin | Bag | View |
| DME-XX-S-S-HT-V0 | .250" [6.35mm] | 1 | Vertical | Through Hole | Tin | Bag | View |
| DME-XX-S-S-NDH-V0 | .250" [6.35mm] | 1 | Vertical | Through Hole | Tin | Bag | View |
| DME-XX-S-S-V0 | .250" [6.35mm] | 1 | Vertical | Through Hole | Tin | Bag | View |
| DME-XX-S-SQ-NDH-V0 | .250" [6.35mm] | 3 | Vertical | Through Hole | Tin | Bag | View |
| DME-XX-S-SQ-V0 | .250" [6.35mm] | 3 | Vertical | Through Hole | Tin | Bag | View |
| DME-XX-S-SQ-V0-G | .250" [6.35mm] | 3 | Vertical | Through Hole | Gold | Bag | View |
| DME-XX-S-SQ-V0-SG | .250" [6.35mm] | 3 | Vertical | Through Hole | Selective Gold | Bag | View |
| DME-XX-S2-P-S | .250" [6.35mm] | 1 | Vertical | Through Hole | Tin | Bag | View |
| DME-XX-S2-P-S-V0 | .250" [6.35mm] | 1 | Vertical | Through Hole | Tin | Bag | View |
| DME-XX-S2-P-SQ | .250" [6.35mm] | 3 | Vertical | Through Hole | Tin | Bag | View |
| DME-XX-S2-P-SQ-V0 | .250" [6.35mm] | 3 | Vertical | Through Hole | Tin | Bag | View |
| DME-XX-S2-S | .250" [6.35mm] | 1 | Vertical | Through Hole | Tin | Bag | View |
| DME-XX-S2-S-V0 | .250" [6.35mm] | 1 | Vertical | Through Hole | Tin | Bag | View |
| DME-XX-S2-SQ | .250" [6.35mm] | 3 | Vertical | Through Hole | Tin | Bag | View |
| DME-XX-S2-SQ-V0 | .250" [6.35mm] | 3 | Vertical | Through Hole | Tin | Bag | View |

## FEATURES & SPECIFICATIONS

### FEATURES:
.250" [6.35mm] pitch
Positions: 2 to 15
Single and matrix row
Secure latching
Polarized anti-vibration design
Molded pegs

### SPECIFICATIONS:

### Material:
Insulator: Nylon 66, rated UL94V-2 or UL94V-0
Insulator Color: Natural or black
Contacts: Brass, tin plated

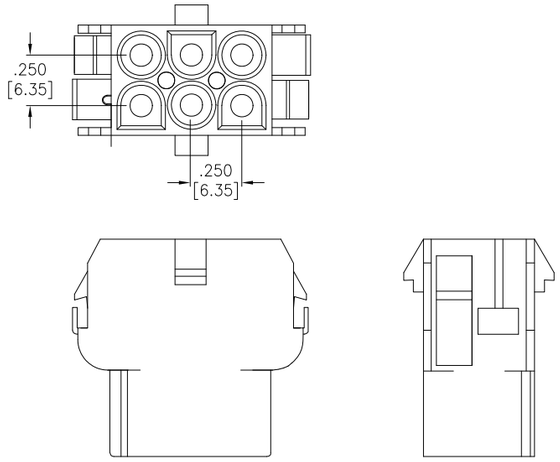
### Electrical:
Operating voltage: 600V AC / DC max.
Current Rating: 11~13 Amps max. (wire dependent)
Contact Resistance: 10 mohms max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 5000V AC/DC for 1 minute

### Temperature Rating:
Operating temperature range: Varies by connector style

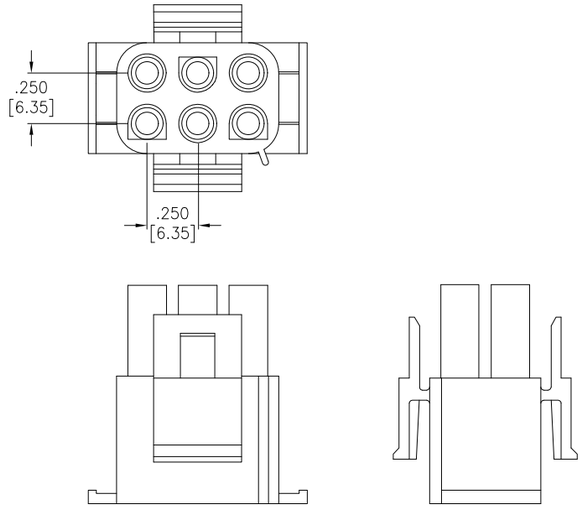
### PACKAGING:
Anti-ESD plastic bags

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### DME-F SQUARE




### DME-M SQUARE




## WIRE HOUSING PART NUMBER CONFIGURATION

**DME - M - XX - SQ - V0**

| SERIES | HOUSING TYPE | POSITIONS | ROW ASSIGNMENT | UL94VX RATING |
|---|---|---|---|---|
| **DME** = *.250 [6.35mm] Pitch Connector PCB Housings* | **M** = *Male Housing*<br>**M2** = *Male Housing*<br>**F**= *Female Housing*<br>**F2**= *Female Housing* | **02** *Thru* **15** | **Blank** = *Single Row*<br>**SQ**= *Matrix Row* | **Blank** = *V2*<br>**V0** = *V0* |

## HOUSINGS

| PART NUMBER | PITCH | NO. OF ROWS | PRODUCT DATA |
|---|---|---|---|
| DME-F-01 | View.250" [6.35mm] | 1 | View |
| DME-F-02 | View.250" [6.35mm] | 1 | View |
| DME-F-02-V0 | .250" [6.35mm] | 1 | View |
| DME-F-03 | View.250" [6.35mm] | 1 | View |
| DME-F-03-V0 | .250" [6.35mm] | 1 | View |
| DME-F-04 | .250" [6.35mm] | 1 | View |
| DME-F-04-V0 | .250" [6.35mm] | 1 | View |
| DME-F-05 | .250" [6.35mm] | 1 | View |
| DME-F2-XX | .250" [6.35mm] | 1 | View |
| DME-F2-XX-SQ | .250" [6.35mm] | 3 | View |
| DME-F2-XX-SQ-V0 | .250" [6.35mm] | 3 | View |
| DME-F2-XX-V0 | .250" [6.35mm] | 1 | View |

| PART NUMBER | PITCH | NO. OF ROWS | PRODUCT DATA |
|---|---|---|---|
| DME-M-03 | View.250" [6.35mm] | 1 | View |
| DME-M-04 | .250" [6.35mm] | 1 | View |
| DME-M-05 | .250" [6.35mm] | 1 | View |
| DME-M-06 | .250" [6.35mm] | 1 | View |
| DME-M-06-SQ | .250" [6.35mm] | 3 | View |
| DME-M-08 | .250" [6.35mm] | 1 | View |
| DME-M-09-SQ | .250" [6.35mm] | 3 | View |
| DME-M2-XX | .250" [6.35mm] | 1 | View |
| DME-M2-XX-SQ | .250" [6.35mm] | 3 | View |
| DME-M2-XX-SQ-V0 | .250" [6.35mm] | 3 | View |
| DME-M2-XX-V0 | .250" [6.35mm] | 1 | View |

## CRIMP CONTACT PART NUMBER CONFIGURATION

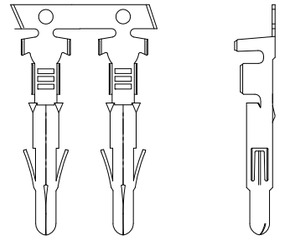
**DME - B - C - M**

| SERIES | WIRE RANGE # AWG | CRIMP CONTACT | CONTACT GENDER |
|---|---|---|---|
| **DME** = *.250 [6.35mm] Pitch Connector PCB Housings* | **A** = *#18~ #22*<br>**B** = *#16~ #20*<br>**C** = *#14~ #12* | **C** = *Crimp contact* | **M** = *Male*<br>**F**= *Female* |

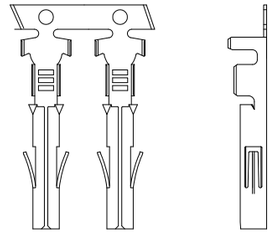
## CRIMP CONTACTS

| PART NUMBER | PITCH | PLATING | PRODUCT DATA |
|---|---|---|---|
| DME-B1-C-F-R | .250" [6.35mm] | Tin | View |
| DME-B1-C-M-R | .250" [6.35mm] | Tin | View |
| DME-C-F | .250" [6.35mm] | Tin | View |
| DME-C-M-2 | .250" [6.35mm] | Tin | View |
| DME-X-C-F-R | .250" [6.35mm] | Tin | View |
| DME-X-C-M-R | .250" [6.35mm] | Tin | View |
| DME-X2-C-F-R | .250" [6.35mm] | Tin | View |
| DME-X2-C-M-R | .250" [6.35mm] | Tin | View |

### DME MALE CRIMP

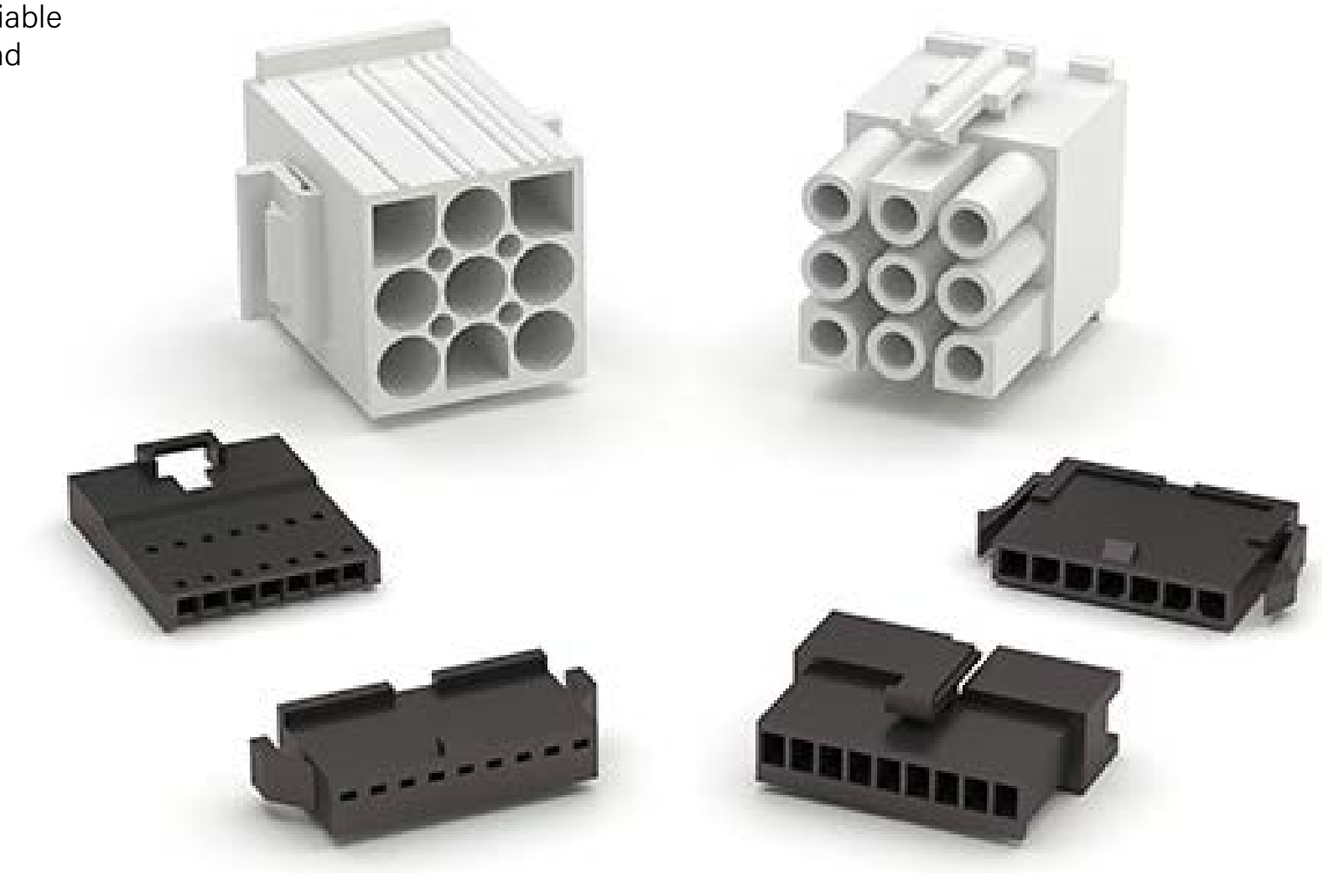


### DME FEMALE CRIMP



# Wire to Wire Power Connectors and Systems

Adam Tech Wire to Wire Power connectors are sets of wire mounted plugs and receptacles with crimp contacts. These sets mate with locking clips or latches for a secure fit. They are suited for a range of wire types and gauges and provide a reliable easymate connection. Available Centerlines are .098", .118", .145", .177", .198", .250" and .264" for nearly any application. UL94V-2 or UL04V-0 plastics are used to satisfy flammability requirements.



## FEATURES & SPECIFICATIONS

### FEATURES:
Wire mounted connectors with crimp contacts
Pitches ranging from .098" to .264"
Available in multiple positions
Locking clips and latches
Compatible with wide range or wire types and gauges

### SPECIFICATIONS:

### Material:
Insulator: Nylon 66, rated UL94V-2 or UL94V-0
Insulator Color: Natural, black, or white
Contacts: Brass, tin plated

### Electrical:
Operating voltage: 250V - 600V AC / DC max.
Current Rating: 3 - 12 Amps max.
Contact Resistance: 20 mΩ max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1000V - 5000V AC/DC for 1 minute

### PACKAGING:
Anti-ESD plastic bags

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053



# Wire to Wire Power Connectors and Systems

## .098” [2.50MM] MALE WIRE HOUSING & CRIMP TERMINAL

## FEATURES & SPECIFICATIONS

### FEATURES:

Wire mounted connectors with crimp contacts
.098” [2.50mm] pitch
Positions: 2 to 18
Single and dual row
Locking clips and latches
Compatible with wide range or wire types and gauges

### SPECIFICATIONS:

### Material:

Insulator: Nylon 66, rated UL94V-2 or UL94V-0
Insulator Color: Natural, black, or white
Contacts: Brass, tin plated

### Electrical:

Operating voltage: 250V AC / DC max.
Current Rating: 3 Amps max.
Insulation resistance: 500 MΩ min.
Dielectric withstanding voltage: 1500V AC for 1 minute

### Temperature Rating:

Operating temperature range: -25°C to +85°C

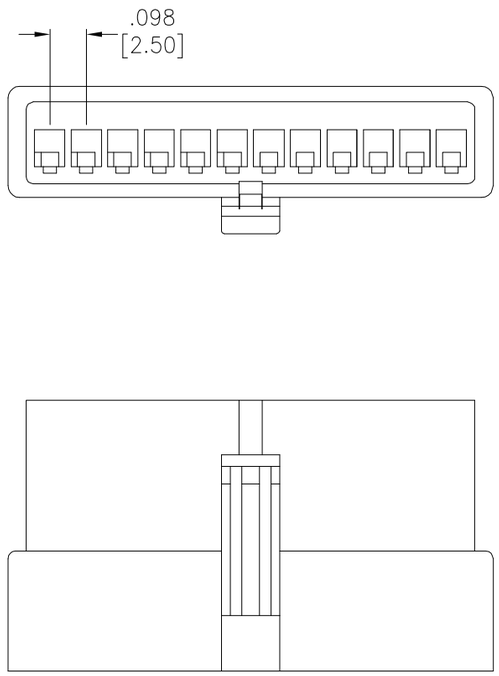
### PACKAGING:

Anti-ESD plastic bags

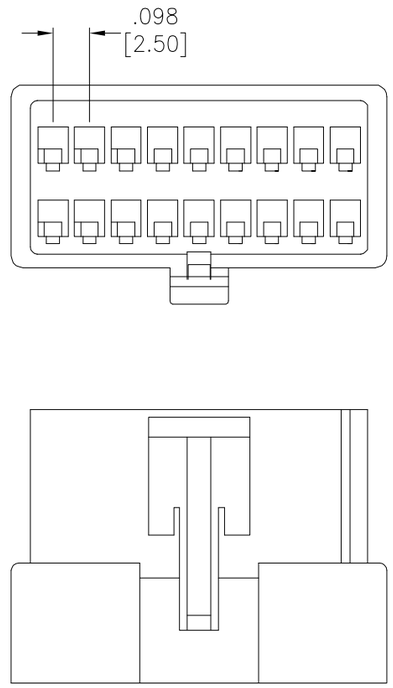
### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

### 02 TO 12 POSITION SINGLE ROW




### 16 TO 18 POSITION DUAL ROW




## MALE HOUSING PART NUMBER CONFIGURATION

| DMQ | - | 6 |
|---|---|---|
| SERIES | | POSITIONS |
| **DMQ** = *.098 [2.50] Male Housing* | | **02** *Thru* **18** |

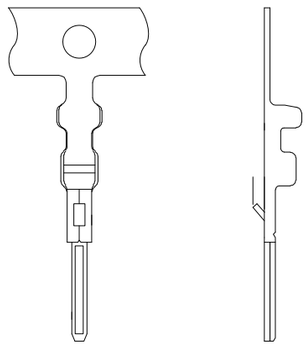
## CRIMP CONTACT PART NUMBER CONFIGURATION

| DMQ-A | - | C | - | R |
|---|---|---|---|---|
| SERIES | | CRIMP CONTACT | | PACKAGING |
| **DMQ-A**: *22~28AWG* | | **C** = *Crimp contact* | | **R** = *Reel* |

## HOUSINGS

| PART NUMBER | PITCH | HOUSING TYPE | PRODUCT DATA |
|---|---|---|---|
| DMQ-XX | .098" [2.50mm] | Receptacle | View |
| DMQ-XX-WT | .098" [2.50mm] | Receptacle | View |

## DMQ CRIMP CONTACT



## CRIMP TERMINAL

| PART NUMBER | PITCH | TERMINAL TYPE | PLATING | PRODUCT DATA |
|---|---|---|---|---|
| DMQ-A-C-R | .098" [2.50mm] | Male | Tin | View |

# Wire to Wire Power Connectors and Systems

## .098” [2.50MM] FEMALE WIRE HOUSING & CRIMP TERMINAL

## FEATURES & SPECIFICATIONS

### FEATURES:

Wire mounted connectors with crimp contacts
.098” [2.50mm] pitch
Positions: 2 to 18
Single and dual row
Locking clips and latches
Compatible with wide range or wire types and gauges

### SPECIFICATIONS:

### Material:

Insulator: Nylon 66, rated UL94V-2 or UL94V-0
Insulator Color: Natural, black, or white
Contacts: Brass, tin plated

### Electrical:

Operating voltage: 250V AC / DC max.
Current Rating: 3 Amps max.
Insulation resistance: 500 MΩ min.
Dielectric withstanding voltage: 1500V AC for 1 minute

### Temperature Rating:

Operating temperature range: -25°C to +85°C

### PACKAGING:

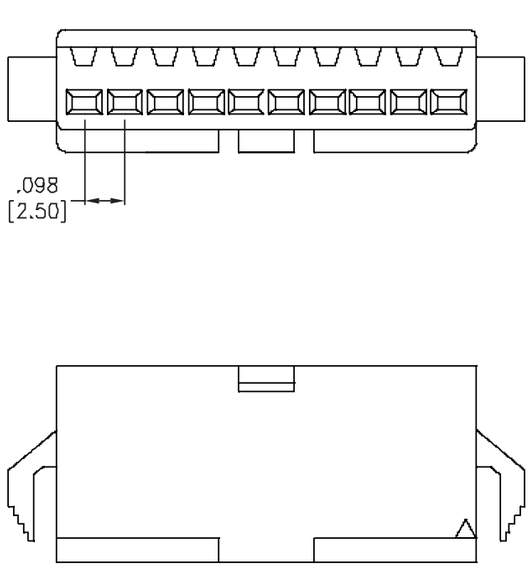
Anti-ESD plastic bags

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

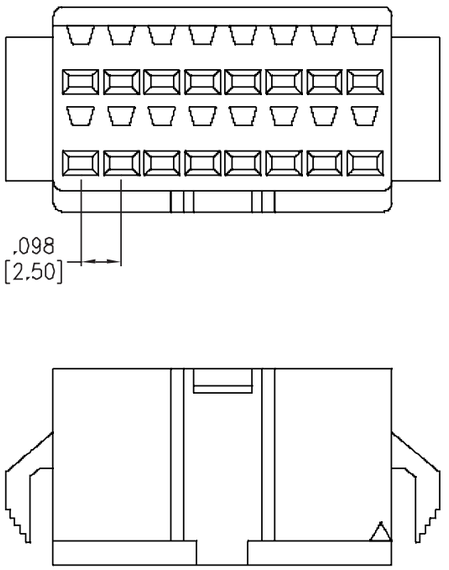
### DMP SINGLE ROW

### 02 TO 12 POSITION




### DMP DUAL ROW

### 16 TO 18 POSITION




## FEMALE HOUSING PART NUMBER CONFIGURATION

| DMP | - | 6 |
|---|---|---|
| SERIES | | POSITIONS |
| **DMP** = *.098 [2.50] Female Housing* | | **02** *Thru* **18** |

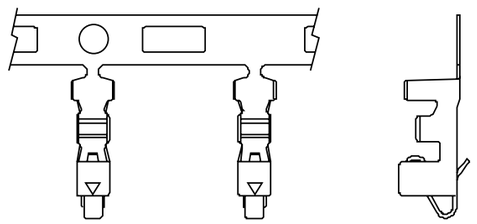
## CRIMP CONTACT PART NUMBER CONFIGURATION

| DMP-A | - | C | - | R |
|---|---|---|---|---|
| SERIES | | CRIMP CONTACT | | PACKAGING |
| **DMP-A**: *22~28 AWG* | | **C** = *Crimp contact* | | **R** = *Reel* |

## HOUSINGS

| PART NUMBER | PITCH | HOUSING TYPE | PRODUCT DATA |
|---|---|---|---|
| DMP-XX | .098" [2.50mm] | Receptacle | View |
| DMP-XX-WT | .098" [2.50mm] | Receptacle | View |

## DMP CRIMP CONTACT



## CRIMP TERMINAL

| PART NUMBER | PITCH | TERMINAL TYPE | PLATING | PRODUCT DATA |
|---|---|---|---|---|
| DMP-A-C-R | .098" [2.50mm] | Male | Tin | View |

## FEATURES & SPECIFICATIONS

### FEATURES:
Wire mounted connectors with crimp contacts
.118” [3.0mm] pitch
Positions: 2 to 24
Single and dual row
Locking clips and latches
Compatible with wide range or wire types and gauges

### SPECIFICATIONS:

### Material:
Insulator: Nylon 66, rated UL94V-2 or UL94V-0
Insulator Color: Natural, black, or white
Contacts: Brass, tin plated

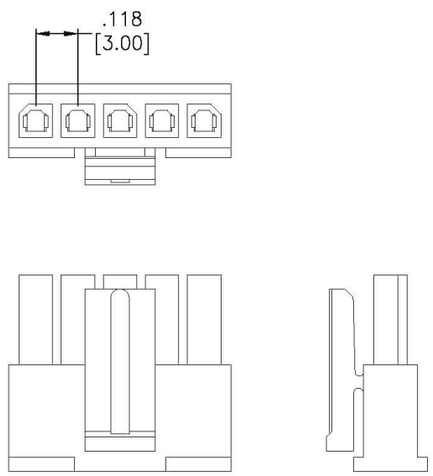
### Electrical:
Operating voltage: 250V AC / DC max.
Current Rating: 1~5 Amps max. (AWG dependent)
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1500V AC for 1 minute

### Temperature Rating:
Operating temperature range: -25°C to +85°C

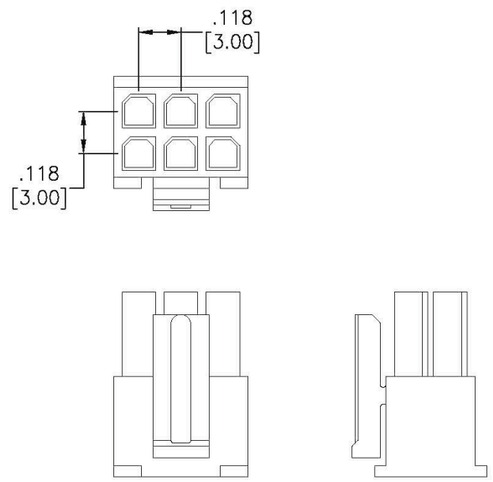
### PACKAGING:
Anti-ESD plastic bags

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### DMT SINGLE ROW




### DMT DUAL ROW




## MALE HOUSING PART NUMBER CONFIGURATION

**DMT - 2 - 12 - P - PCB - SG**

| SERIES | HOUSING TYPE | POSITIONS | PCB MOUNTING OPTIONS | MOUNTING TYPE | PLATING OPTIONS |
|---|---|---|---|---|---|
| **DMT** = *.118" [3.00mm] Wire Crimp Housing, Male* | **1** = *Single row*<br>**2** = *Dual row* | *Single row:*<br>**02** ~**12**<br>*Dual row:*<br>**02** ~ **24** | **P** = *Peg PCB Mount* | **PCB** = *PCB solder Type* | **Blank** = *Tin*<br>**SG** = *Selective Gold* |

## CRIMP CONTACT PART NUMBER CONFIGURATION

**DMT - A - C - F - T - R**

| SERIES | WIRE SIZE | CRIMP CONTACT | CONTACT GENDER | PLATING | PACKAGING OPTIONS |
|---|---|---|---|---|---|
| **DMT** = *.118 [3.00mm] Pitch Crimp Contacts* | **A** = *26 ~ 30 AWG*<br>**B** = *20 ~ 24 AWG* | **C** = *Crimp contact* | **F**= *Female* | **T** = *Tin* | **R** = *Reel* |

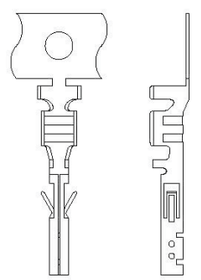
## HOUSINGS

| PART NUMBER | PITCH | NO. OF ROWS | PRODUCT DATA |
|---|---|---|---|
| DMT-1-XX | .118" [3.00mm] | 1 | View |
| DMT-2-XX | .118" [3.00mm] | 2 | View |

## CRIMP TERMINALS

| PART NUMBER | PITCH | PLATING | PRODUCT DATA |
|---|---|---|---|
| DMT-A5-C-F-T-R | .118" [3.00mm] | Tin | View |
| DMT-B5-C-F-T-R | .118" [3.00mm] | Tin | View |
| DMT-C-F-G-1 | .118" [3.00mm] | Gold | View |
| DMT-C-F-T-1 | .118" [3.00mm] | Tin | View |
| DMT-X-C-F-T-R | .118" [3.00mm] | Tin | View |
| DMT-X1-C-F-T-R | .118" [3.00mm] | Tin | View |
| DMT-X2-C-F-T-R | .118" [3.00mm] | Tin | View |
| DMT-X5-C-F-T-R | .118" [3.00mm] | Tin | View |

### DMT FEMALE CRIMP CONTACT



# Wire to Wire Power Connectors and Systems

## .118” [3.0MM] FEMALE WIRE HOUSING & CRIMP TERMINAL

## FEATURES & SPECIFICATIONS

### FEATURES:

Wire mounted connectors with crimp contacts
.118” [3.0mm] pitch
Positions: 2 to 24
Single and dual row
Locking clips and latches
Compatible with wide range or wire types and gauges

### SPECIFICATIONS:

### Material:

Insulator: Nylon 66, rated UL94V-2 or UL94V-0
Insulator Color: Natural, black, or white
Contacts: Brass, tin plated

### Electrical:

Operating voltage: 250V AC / DC max.
Current Rating: 1~5 Amps max. (AWG dependent)
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1500V AC for 1 minute

### Temperature Rating:

Operating temperature range: -25°C to +85°C

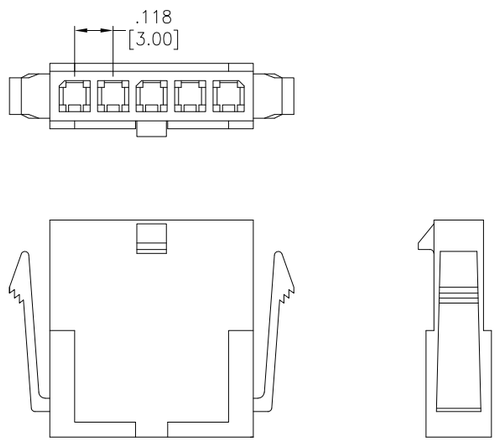
### PACKAGING:

Anti-ESD plastic bags

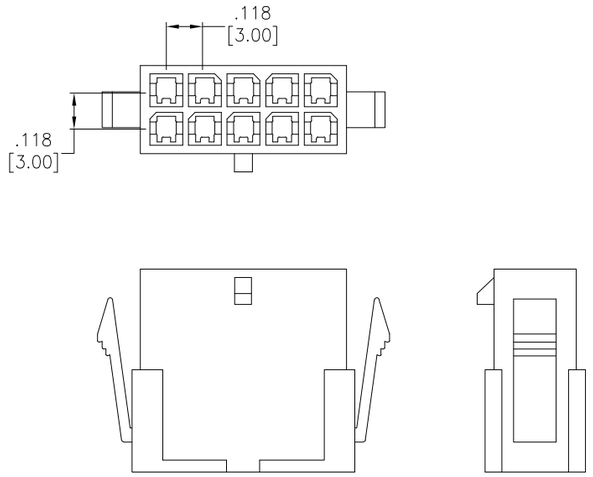
### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

### DMU SINGLE ROW




### DMU DUAL ROW




## FEMALE HOUSING PART NUMBER CONFIGURATION

**DMU - 2A - 12 - T - NPM**

| SERIES | HOUSING TYPE | POSITIONS | | EAR OPTION |
|---|---|---|---|---|
| **DMU** = *.118" [3.00mm] Wire Crimp Housing, Female* | **1A** = *Single row*<br>**2A** = *Dual row* | *Single row:*<br>**02 ~12**<br>*Dual row:*<br>**02 ~ 24** | | **Blank** = *W/ Mounting Ears*<br>**NPM** = *No Mounting Ears* |

## CRIMP CONTACT PART NUMBER CONFIGURATION

**DMU - A - C- M - T - R**

| SERIES | WIRE SIZE | CRIMP CONTACT | CONTACT GENDER | PLATING | PACKAGING OPTIONS |
|---|---|---|---|---|---|
| **DMU** = *.118 [3.00mm] Pitch Crimp Contacts* | **A** = *26 ~ 30 AWG*<br>**B** = *20 ~ 24 AWG* | **C** = *Crimp contact* | **M** = *Male* | **T** = *Tin* | **R** = *Reel* |

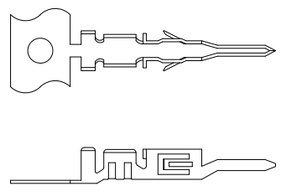
## HOUSINGS

| PART NUMBER | PITCH | HOUSING TYPE | PRODUCT DATA |
|---|---|---|---|
| DMU-1-02-T | .118" [3.00mm] | Receptacle | View |
| DMU-1-XX-NPM | .118" [3.00mm] | Receptacle | View |
| DMU-1-XX-T | .118" [3.00mm] | Receptacle | View |
| DMU-1A-XX-NPM | .118" [3.00mm] | Receptacle | View |
| DMU-1A-XX-T | .118" [3.00mm] | Receptacle | View |
| DMU-1D-XX-T | .118" [3.00mm] | Receptacle | View |
| DMU-2-08-NPM | .118" [3.00mm] | Receptacle | View |
| DMU-2-XX-NPM | .118" [3.00mm] | Receptacle | View |
| DMU-2-XX-T | .118" [3.00mm] | Receptacle | View |
| DMU-2A-XX-NPM | .118" [3.00mm] | Receptacle | View |
| DMU-2A-XX-T | .118" [3.00mm] | Receptacle | View |
| DMU-A-2-XX-T | .118" [3.00mm] | Receptacle | View |

## CRIMP TERMINALS

| PART NUMBER | PITCH | TERMINAL TYPE | PLATING | PRODUCT DATA |
|---|---|---|---|---|
| DMU-A-C-M-T-R | .118" [3.00mm] | Male | Tin | View |
| DMU-B-C-M-T-R | .118" [3.00mm] | Male | Tin | View |
| DMU-C-M-T-1 | .118" [3.00mm] | Male | Tin | View |
| DMU-C-M-T-2 | .118" [3.00mm] | Male | Tin | View |
| DMU-X-C-M-T-R | .118" [3.00mm] | Male | Tin | View |
| DMU-X1-C-M-T-R | .118" [3.00mm] | Male | Tin | View |

### DMU CRIMP CONTACT



# Wire to Wire Power Connectors and Systems

.163” [4.14MM] MALE & FEMALE WIRE HOUSING & CRIMP TERMINAL

## FEATURES & SPECIFICATIONS

### FEATURES:

Wire mounted connectors with crimp contacts
.163” [4.14mm] pitch
Positions: 1 to 24
Single, dual, and matrix row
Locking clips and latches
Compatible with wide range or wire types and gauges

### SPECIFICATIONS:

### Material:

Insulator: Nylon 66, rated UL94V-2 or UL94V-0
Insulator Color: Natural, black, or white
Contacts: Brass, tin plated

### Electrical:

Operating voltage: 300V AC / DC max.
Current Rating: 5 Amps max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1500V AC for 1 minute

### Temperature Rating:

Operating temperature range: -25°C to +85°C

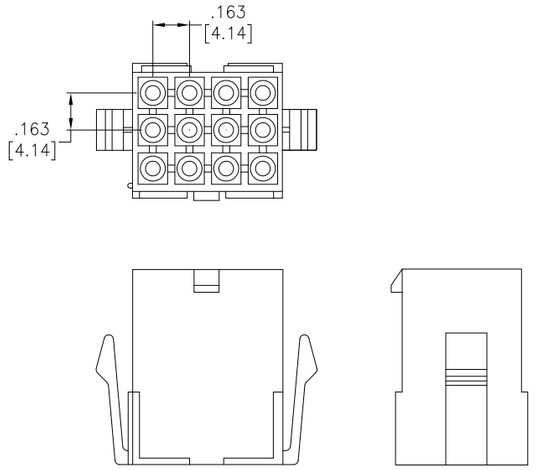
### PACKAGING:

Anti-ESD plastic bags

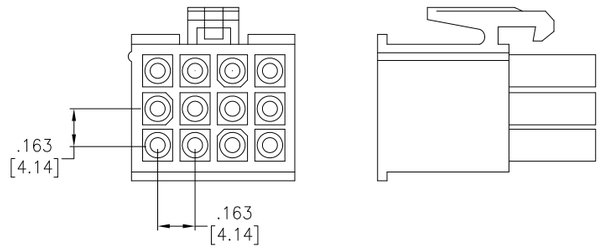
### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

## DMW FEMALE HOUSING




## DMW MALE HOUSING




## HOUSING PART NUMBER CONFIGURATION

**DMW - F - 15 - DR - E - V0**

| SERIES | HOUSING TYPE | POSITIONS | ROW ASSIGNMENT | OPTIONS: | UL94VX RATING |
|---|---|---|---|---|---|
| **DMW** = .163" [4.14mm] WIRE TO WIRE SYSTEM | **Blank** = Male<br>**F** = Female | **Blank**<br>02 Thru 24<br>**DR** series<br>02 Thru 24<br>**SQ** series<br>09, 12, 15 | **Blank** = Single Row<br>**DR** = Dual Row<br>**SQ**= Matrix Row | Add designator(s) to end of part number<br>**E** = Mounting Ear (Female option) | **Blank** = V2<br>**V0** = V0 |

## CRIMP CONTACT PART NUMBER CONFIGURATION

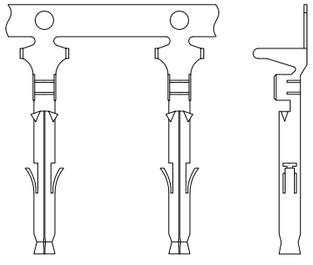
**DMW - B - C - M - R**

| SERIES | WIRE RANGE # AWG | CRIMP CONTACT | CONTACT GENDER | PACKING |
|---|---|---|---|---|
| **DMW** = .163" [4.14mm] WIRE TO WIRE SYSTEM | **A** = #18~ #24<br>**B** = #22~ #26 | **C** = Crimp contact | **M** = Male<br>**F**= Female | **R** = Reel |

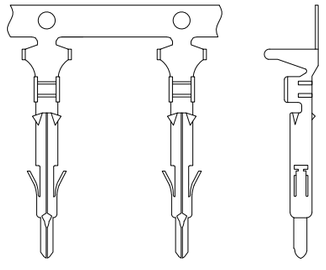
## HOUSINGS

| PART NUMBER | PITCH | HOUSING TYPE | PRODUCT DATA |
|---|---|---|---|
| DMW-F-02-E | .163" [4.14mm] | Receptacle | View |
| DMW-F-XX-DR | .163" [4.14mm] | Receptacle | View |
| DMW-F-XX-DR-V0 | .163" [4.14mm] | Receptacle | View |
| DMW-F-XX-E-DR | .163" [4.14mm] | Receptacle | View |
| DMW-XX | .163" [4.14mm] | Plug | View |
| DMW-XX-DR | .163" [4.14mm] | Plug | View |
| DMW-XX-V0 | .163" [4.14mm] | Plug | View |

## DMW FEMALE CRIMP



## DMW MALE CRIMP



## CRIMP TERMINALS

| PART NUMBER | PITCH | TERMINAL TYPE | PLATING | PRODUCT DATA |
|---|---|---|---|---|
| DMW-C-F-R | .163" [4.14mm] | Female | Tin | View |
| DMW-X-C-F-R | .163" [4.14mm] | Female | Tin | View |

# Wire to Wire Power Connectors and Systems

.177” [4.5MM] MALE & FEMALE WIRE HOUSING & CRIMP TERMINAL

## FEATURES & SPECIFICATIONS

### FEATURES:

Wire mounted connectors with crimp contacts
.177” [4.5mm] pitch
Available in multiple positions
Locking clips and latches
Compatible with wide range or wire types and gauges

### SPECIFICATIONS:

### Material:

Insulator: Nylon 66, rated UL94V-2 or UL94V-0
Insulator Color: Natural, black, or white
Contacts: Brass, tin plated

### Electrical:

Operating voltage: 300V AC / DC max.
Current Rating: 5~10 Amps max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1500V AC for 1 minute

### Temperature Rating:

Operating temperature range: -25°C to +85°C

### PACKAGING:

Anti-ESD plastic bags

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

## WIRE HOUSING PART NUMBER CONFIGURATION

**DMB - JM - XX - V - E**

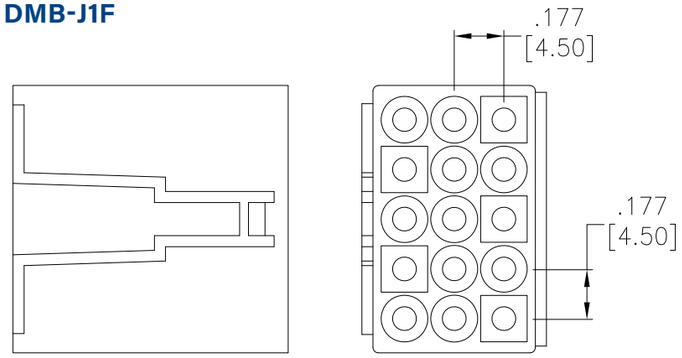
| SERIES | HOUSING TYPE | POSITIONS | MOUNT TYPE | EAR OPTION |
|---|---|---|---|---|
| **DMB** = *.177 [4.5mm] Pitch Connector Latch Housings* | **J1M** = *Male Housing*<br>**J1F** = *Female Housing* | *Positions* | **V** = *Vertical (Straight)* | **Blank** = *W/o Ears*<br>**E** = *W Ears (only for female)* |

## CRIMP CONTACT PART NUMBER CONFIGURATION

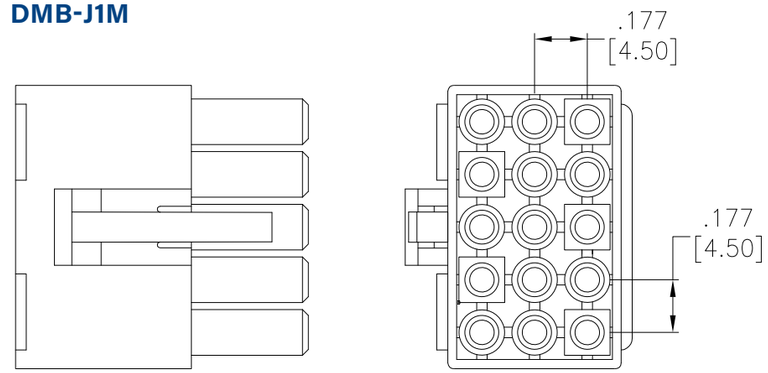
**DMB - JC - F - 1 - R**

| SERIES | J TYPE CONTACT | CONTACT TYPE | WIRE RANGE # AWG | PACKAGING |
|---|---|---|---|---|
| *Connector Housings* | **JC** = *J Type* | **M** = *Male*<br>**F**= *Female* | **1** = *#16 ~ #20* | **R** = *Reel* |

### DMB-J1F



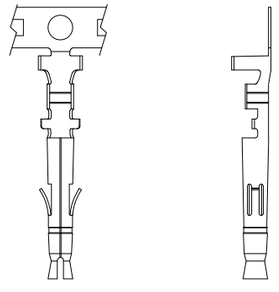

### DMB-J1M



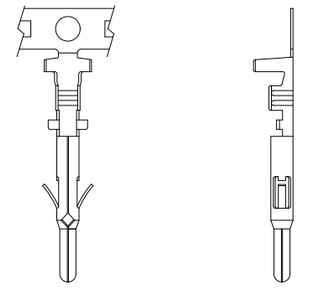

## HOUSINGS

| PART NUMBER | PITCH | HOUSING TYPE | PRODUCT DATA |
|---|---|---|---|
| DMB-J1F-XX-V | .177" [4.50mm] | Receptacle | View |
| DMB-J1F-XX-V-E | .177" [4.50mm] | Receptacle | View |
| DMB-J1M-XX-V | .177" [4.50mm] | Plug | View |

### DMB FEMALE CRIMP



### DMB MALE CRIMP



## CRIMP CONTACTS

| PART NUMBER | PITCH | TERMINAL TYPE | PLATING | PRODUCT DATA |
|---|---|---|---|---|
| DMB-J1F-F-R | .177" [4.50mm] | Female | Tin | View |
| DMB-J1F-M-R | .177" [4.50mm] | Male | Tin | View |

# Wire to Wire Power Connectors and Systems

.198” [5.03MM] MALE & FEMALE WIRE HOUSING

## FEATURES & SPECIFICATIONS

### FEATURES:

Wire mounted connectors with crimp contacts
.198” [5.03mm] pitch
Positions: 1 to 15
Single and matrix row
Locking clips and latches
Compatible with wide range or wire types and gauges

### SPECIFICATIONS:

### Material:

Insulator: Nylon 66, rated UL94V-2 or UL94V-0
Insulator Color: Natural, black, or white
Contacts: Brass, tin plated

### Electrical:

Operating voltage: 250V AC / DC max.
Current Rating: 5~10 Amps max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1500V AC for 1 minute

### Temperature Rating:

Operating temperature range: -40°C to +105°C

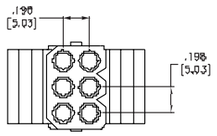
### PACKAGING:

Anti-ESD plastic bags

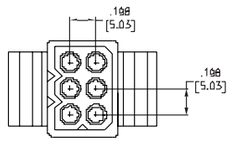
### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

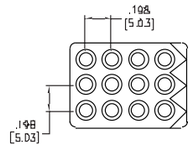
### DMB-AM



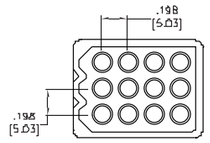
### DMB-AF

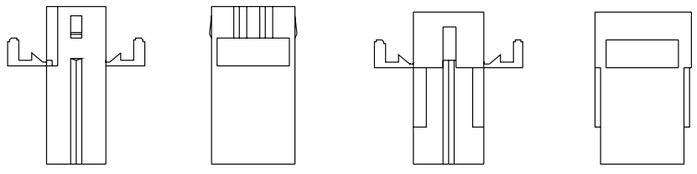


### DMB-AM SQUARE



### DMB-AF SQUARE





## HOUSINGS

| PART NUMBER | PITCH | HOUSING TYPE | PRODUCT DATA |
|---|---|---|---|
| DMB-AF-01-V | .248" [6.30mm] | Receptacle | View |
| DMB-AF-02-V | .248" [6.30mm] | Receptacle | View |
| DMB-AF-03-V | .198" [5.03mm] | Receptacle | View |
| DMB-AF-03-V-E | .198" [5.03mm] | Receptacle | View |
| DMB-AF-04-SQ | .198" [5.03mm] | Receptacle | View |
| DMB-AF-04-SQ-E | .198" [5.03mm] | Receptacle | View |
| DMB-AF-04-V | .198" [5.03mm] | Receptacle | View |
| DMB-AF-04-V-E | .198" [5.03mm] | Receptacle | View |
| DMB-AF-05-V | .198" [5.03mm] | Receptacle | View |
| DMB-AF-05-V-E | .198" [5.03mm] | Receptacle | View |
| DMB-AF-06-SQ-E | .198" [5.03mm] | Receptacle | View |
| DMB-AF-09-SQ | .198" [5.03mm] | Receptacle | View |
| DMB-AF-09-SQ-E | .198" [5.03mm] | Receptacle | View |

| PART NUMBER | PITCH | HOUSING TYPE | PRODUCT DATA |
|---|---|---|---|
| DMB-AM-02-V-WC | .198" [5.03mm] | Plug | View |
| DMB-AM-03-V-E-WC | .198" [5.03mm] | Plug | View |
| DMB-AM-03-V-WC | .198" [5.03mm] | Plug | View |
| DMB-AM-04-SQ-E-WC | .198" [5.03mm] | Plug | View |
| DMB-AM-04-SQ-WC | .198" [5.03mm] | Plug | View |
| DMB-AM-04-V-E-WC | .198" [5.03mm] | Plug | View |
| DMB-AM-04-V-WC | .198" [5.03mm] | Plug | View |
| DMB-AM-05-V-WC | .198" [5.03mm] | Plug | View |
| DMB-AM-06-SQ-E-WC | .198" [5.03mm] | Plug | View |
| DMB-AM-09-SQ-E-WC | .198" [5.03mm] | Plug | View |
| DMB-AM-09-SQ-WC | .198" [5.03mm] | Plug | View |
| DMB-AM-12-SQ | .198" [5.03mm] | Plug | View |
| DMB-AM-12-SQ-E | .198" [5.03mm] | Plug | View |

## WIRE HOUSING PART NUMBER CONFIGURATION

**DMB - AM - 06 - V - E - WC - VO**

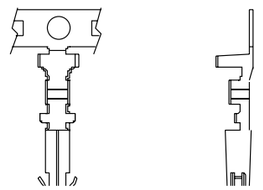
| SERIES | HOUSING TYPE | POSITIONS | MOUNT TYPE | EAR OPTION | CONVEX OPTION | UL94VX RATING |
|---|---|---|---|---|---|---|
| **DMB** = .198 [5.03] Pitch .093" (2.36mm) Connector Housings | **AM** = Male<br>**AF**= Female | **01**~**06**, **09**, **12**, **15** Positions | **V** = Vertical (Straight) (01, 02, 03, 04 & 05 positions are available only)<br>**SQ** = square (04, 06, 09, 12 & 15 positions are available only) | **Blank** = W/o Ears<br>**E** = W Ears (01 position is unavailable) | **Blank** = w/o convex<br>**WC** = W/ convex (Square: 12 & 15 positions are unavailable only) | **Blank** = V2<br>**V0** = V0 |

## CRIMP CONTACT PART NUMBER CONFIGURATION

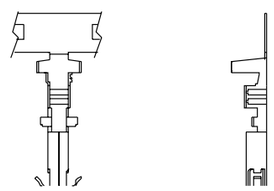
**DMB - A1C - F - 1 - R**

| SERIES | J TYPE CONTACT | CONTACT TYPE | WIRE SIZE | PACKAGING |
|---|---|---|---|---|
| Connector Housings | **A1C** = J Type | **M** = Male<br>**F**= Female | **1** = 14 ~ 20 AWG<br>**2** = 20 ~ 24 AWG | **R** = Reel |

### DMB FEMALE CRIMP CONTACT



### DMB MALE CRIMP CONTACT



## CRIMP CONTACTS

| PART NUMBER | PITCH | TERMINAL TYPE | PLATING | PRODUCT DATA |
|---|---|---|---|---|
| DMB-A1C-F-X-R | .198" [5.03mm] | Female | Tin | |
| DMB-A1C-M-X-R | .198" [5.03mm] | Male | Tin | |

## FEATURES & SPECIFICATIONS

### FEATURES:
Wire mounted connectors with crimp contacts
.264" [6.70mm] pitch
Positions: 1, 2, 3, 4, 6, 9, 12 & 15
Single and matrix row
Locking clips and latches
Compatible with wide range or wire types and gauges

### SPECIFICATIONS:

### Material:
Insulator: Nylon 66, rated UL94V-2 or UL94V-0
Insulator Color: Natural
Contacts: Brass, tin plated

### Electrical:
Operating voltage: 600V AC / DC max.
Current Rating: 17 Amps max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 5000V AC for 1 minute

### Temperature Rating:
Operating temperature range: -55°C to +105°C

### PACKAGING:
Anti-ESD plastic bags

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

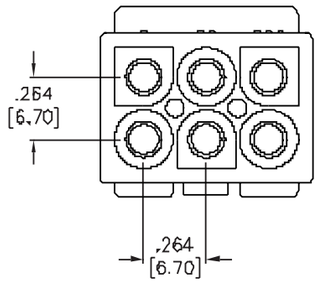
## WIRE HOUSING PART NUMBER CONFIGURATION

| DMB | - | B1M | - | 03 | - | V | - | E |
|---|---|---|---|---|---|---|---|---|
| SERIES | | HOUSING TYPE | | POSITIONS | | ORIENTATION | | PANEL MOUNT |
| **DMB** = .264 [6.70mm] Pitch Connector Housings | | **B1M** = Male<br>**B1F**= Female | | **01, 02, 03, 04, 06, 09, 12, 15** | | **V** = Straight | | **E** = Ears (BF Housing Type only) |

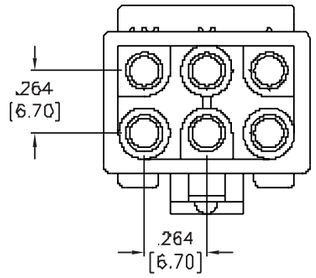
## CRIMP CONTACTS PART NUMBER CONFIGURATION

| DMB | - | B1C | - | F | - | 1 | - | R |
|---|---|---|---|---|---|---|---|---|
| SERIES | | | | CONTACT GENDER | | WIRE SIZE | | PACKAGING |
| **DMB** = .264 [6.70mm] Pitch Crimp Contacts | | | | **F**= Female<br>**M** = Male | | **1** = 18 ~ 22 AWG<br>**2** = 14 ~ 20 AWG | | **R** = Reel |

### DMB-BF FEMALE CRIMP HOUSING



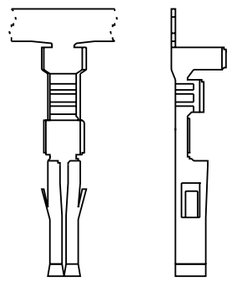

### DMB-BM MALE CRIMP HOUSING



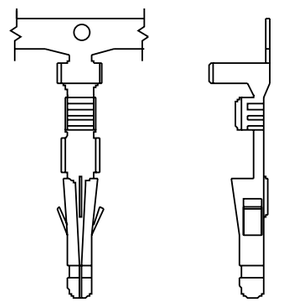

## HOUSINGS

| PART NUMBER | PITCH | HOUSING TYPE | PRODUCT DATA |
|---|---|---|---|
| DMB-B1F-XX-V | .264" [6.70mm] | Receptacle | View |
| DMB-B1F-XX-V-E | .264" [6.70mm] | Receptacle | View |
| DMB-B1M-XX-V | .264" [6.70mm] | Plug | View |

### DMB-B1C FEMALE CRIMP CONTACT



### DMB-B1C MALE CRIMP CONTACT



## CRIMP CONTACTS

| PART NUMBER | PITCH | TERMINAL TYPE | PRODUCT DATA |
|---|---|---|---|
| DMB-B1C-F-X-R | .264" [6.70mm] | Female | View |
| DMB-B1C-M-X-R | .264" [6.70mm] | Male | View |

# Wire to Wire Power Connectors and Systems

## SECUR-SEAL WIRE-TO-WIRE CONNECTORS

Adam Tech's Secur-Seal Wire-to-Wire Connectors provide sealed waterproof protection to a variety of harsh environment applications. This series is composed of securely latched connector housings ranging from two to six positions, various AWG terminal sets, and wire seals. They provide sealed IP67 waterproof protection and accommodate various current ratings and wire gauge ranges. Their compact size further enhances their application compatibility. Custom connector and cable assembly options are welcomed.











## FEATURES & SPECIFICATIONS

### FEATURES:

IP67 sealed connection
Securely latched to withstand shock and vibration
6mm pitch housings ranging from 2-6 positions
Terminal wire AWG options of 22~20, 18~15, or 16~14 AWG
Various wire AWG wire seal sizes
Current ratings: 5-18A
Voltage ratings: 24VDC (housings), 250V AC/DC (crimps)
Compact design

### SPECIFICATIONS:

#### Material:

Housing Insulator: NY66, rated UL 94V-0
Housing Insulator Color: Black
Crimp: Phosphor bronze, thickness: 0.3mm
Crimp Plating: Tin over nickel underplate overall
Wire Seal: Silicon rubber
Wire Seal Color: Green or yellow

#### Electrical:

Voltage Rating: 24V DC max (housing) and 250V AC/DC max (crimp)
Current Rating: 5-18A
Housing Insulation Resistance: 100MΩ min @ 500V DC
Crimp Contact Resistance: 3 mΩ max
Dielectric Strength: 1.5KV AC

#### Mechanical:

Initial Insertion Force: 8kg max
Terminal Adhesion Force: 5kg min
Terminal Insertion Force: 1.5kg max
Terminal Withdrawal Force: 6kg max

#### Environmental:

IP67 (mated condition)
Lead free, RoHS compliant

#### Temperature Rating:

Operating Temperature Range: -40°C to +180°C

## WIRE HOUSING PART NUMBER CONFIGURATION

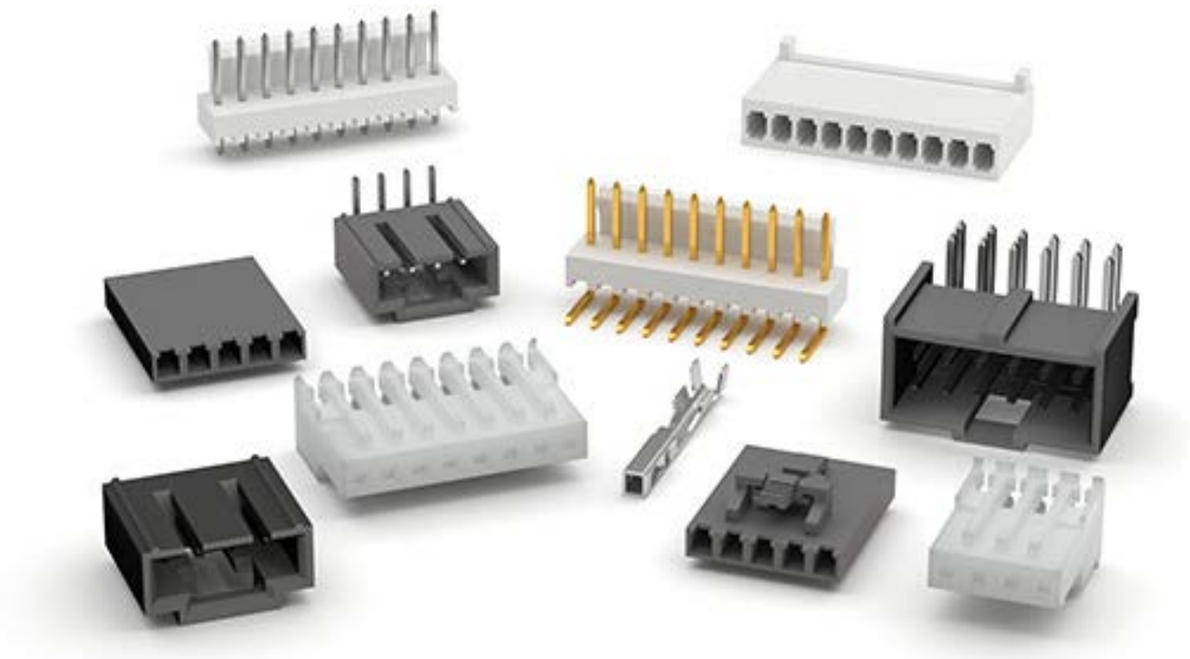
| DMB - | DFSS | XX |
|---|---|---|
| SERIES | HOUSING TYPE | POSITIONS |
| DMB | **DFSS** = *Female*<br>**DMSS** = *Male* | **02** *thru* **06** |

## CRIMP CONTACT PART NUMBER CONFIGURATION

| DMB - | DFSS | C - | X - | R |
|---|---|---|---|---|
| SERIES | HOUSING TYPE | CRIMP CONTACT | WIRE AWG | PACKAGING |
| DMB | **DFSS** = *Female*<br>**DMSS** = *Male* | | **1** = *22~0 AWG*<br>**2** = *18~15 AWG*<br>**3** = *16~14 AWG* | **R** = *Reel* |

| PART NUMBER | TYPE | POSITIONS | WIRE GAUGE RANGE | PRODUCT DATA |
|---|---|---|---|---|
| DMB-DFSS02 | Female Wire Housing | 2 | N/A | View |
| DMB-DFSS03 | Female Wire Housing | 3 | N/A | View |
| DMB-DFSS04 | Female Wire Housing | 4 | N/A | View |
| DMB-DFSS05 | Female Wire Housing | 5 | N/A | View |
| DMB-DFSS06 | Female Wire Housing | 6 | N/A | View |
| DMB-DFSSC-1-R | Female Crimp | N/A | 22-20 AWG | View |
| DMB-DFSSC-2-R | Female Crimp | N/A | 18-15 AWG | View |
| DMB-DFSSC-3-R | Female Crimp | N/A | 16-14 AWG | View |
| DMB-DFWSSS-G | Green Wire Seal | N/A | 0.063" [Ø1.6mm] Insulation Dia. Range | View |
| DMB-DFWSSS-Y | Yellow Wire Seal | N/A | 0.094" [Ø2.4mm] Insulation Dia. Range | View |
| DMB-DMSS02 | Male Wire Housing | 2 | N/A | View |
| DMB-DMSS03 | Male Wire Housing | 3 | N/A | View |
| DMB-DMSS04 | Male Wire Housing | 4 | N/A | View |
| DMB-DMSS05 | Male Wire Housing | 5 | N/A | View |
| DMB-DMSS06 | Male Wire Housing | 6 | N/A | View |
| DMB-DMSSC-1-R | Male Crimp | N/A | 22-20 AWG | View |
| DMB-DMSSC-2-R | Male Crimp | N/A | 18-15 AWG | View |
| DMB-DMSSC-3-R | Male Crimp | N/A | 16-14 AWG | View |

Adam Tech Disconnecting Wire to Board series is a combination of various wire housings, board headers, and crimp terminals. The styles include Latching Types with .098", .100", .156" and .200" centerline, IDC termination styles with .100" & .156" centerlines, and locking designs with friction ramps for secure fits.



## FEATURES & SPECIFICATIONS

### FEATURES:
Matched latching header & housing sets
Precision .025" sq. posts
Available in multiple positions
Polarized anti-vibration design
Secure friction lock
Straight, Right Angle mounting headers
Choice of two latching types
Housings feature high pressure, low insertion force contacts

### MATING CONNECTORS:
All industry standard .100 and .156 centerline compatible latching headers and housings

### SPECIFICATIONS:

### Material:
Insulator: Nylon 66, rated UL94V-0 or UL94V-2
Insulator Color: Black, white, or natural
Contacts: Phosphor bronze and brass

### Contact Plating:
Tin over copper underplate overall

### Electrical:
Operating voltage: 250V AC max.
Current rating range: 3 to 5 Amps max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage range: 500V to 1000V AC for 1 minute

### Mechanical:
Recommended wire size range: 18 to 28 AWG
O.D. insulation max.

### Temperature Rating:
Operating temperature range: -25°C to +85°C

### PACKAGING:
Anti-ESD plastic bags

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

## HEADERS

| PART NUMBER | PITCH | MOUNTING ORIENTATION | MOUNTING | PLATING | PACKAGING | PRODUCT DATA |
|---|---|---|---|---|---|---|
| CDR-05-TR-SMT-KT-TR | .100" [2.54mm] | Right Angle | Surface Mount | Tin | Tape & Reel | View |
| CDR-05-TS-SMT | .100" [2.54mm] | Vertical | Surface Mount | Tin | | View |
| CDR-XX-GR | .100" [2.54mm] | Right Angle | Through Hole | Gold | Bag | View |
| CDR-XX-GR-HT | .100" [2.54mm] | Right Angle | Through Hole | Gold | Bag | View |
| CDR-XX-GR-P | .100" [2.54mm] | Right Angle | Through Hole | Gold | Bag | View |
| CDR-XX-GR-SMT-KT-TR | .100" [2.54mm] | Right Angle | Surface Mount | Gold | Tape & Reel | View |
| CDR-XX-GS | .100" [2.54mm] | Vertical | Through Hole | Gold | Bag | View |
| CDR-XX-GS-HT | .100" [2.54mm] | Vertical | Through Hole | Gold | Bag | View |
| CDR-XX-GS-P1 | .100" [2.54mm] | Vertical | Through Hole | Gold | Bag | View |
| CDR-XX-MTS-P1-HT | .100" [2.54mm] | Vertical | Through Hole | Tin | Bag | View |
| CDR-XX-SGR | .100" [2.54mm] | Right Angle | Through Hole | Gold | Bag | View |
| CDR-XX-SGS | .100" [2.54mm] | Vertical | Through Hole | Gold | Bag | View |
| CDR-XX-TR | .100" [2.54mm] | Right Angle | Through Hole | Tin | Bag | View |
| CDR-XX-TR-HT | .100" [2.54mm] | Right Angle | Through Hole | Tin | Bag | View |
| CDR-XX-TR-SMT | .100" [2.54mm] | Right Angle | Surface Mount | Tin | | View |
| CDR-XX-TR-SMT-KT-TR | .100" [2.54mm] | Right Angle | Surface Mount | Tin | Tape & Reel | View |
| CDR-XX-TS | .100" [2.54mm] | Vertical | Through Hole | Tin | Bag | View |
| CDR-XX-TS-HT | .100" [2.54mm] | Vertical | Through Hole | Tin | Bag | View |
| CDR2-XX-SGS-B | .100" [2.54mm] | Vertical | Through Hole | Gold | Bag | View |
| CDR2-XX-TS-B | .100" [2.54mm] | Vertical | Through Hole | Tin | Bag | View |
| LHA-D-XX-GRA-V0 | .100" [2.54mm] | Right Angle | Through Hole | Gold | Bag | View |
| LHA-D-XX-GS-V0 | .100" [2.54mm] | Vertical | Through Hole | Gold | Bag | View |
| LHA-D-XX-TRA-V0 | .100" [2.54mm] | Right Angle | Through Hole | Tin | Bag | View |
| LHA-D-XX-TS-V0 | .100" [2.54mm] | Vertical | Through Hole | Tin | Bag | View |

## HEADERS

| PART NUMBER | PITCH | MOUNTING ORIENTATION | MOUNTING | PLATING | PACKAGING | PRODUCT DATA |
|---|---|---|---|---|---|---|
| LHA-E-XX-TRA-V0 | .100" [2.54mm] | Right Angle | Through Hole | Tin | Bag | View |
| LHA-E-XX-TS-V0 | .100" [2.54mm] | Vertical | Through Hole | Tin | Bag | View |
| LHA-XX-GRA | .100" [2.54mm] | Right Angle | Through Hole | Gold | Bag | View |
| LHA-XX-GRA-V0 | .100" [2.54mm] | Right Angle | Through Hole | Gold | Bag | View |
| LHA-XX-GRB | .100" [2.54mm] | Right Angle | Through Hole | Gold | Bag | View |
| LHA-XX-GS | .100" [2.54mm] | Vertical | Through Hole | Gold | Bag | View |
| LHA-XX-GS-V0 | .100" [2.54mm] | Vertical | Through Hole | Gold | Bag | View |
| LHA-XX-TRA | .100" [2.54mm] | Right Angle | Through Hole | Tin | Bag | View |
| LHA-XX-TRA-BK | .100" [2.54mm] | Right Angle | Through Hole | Tin | Bag | View |
| LHA-XX-TRA-HT-V0 | .100" [2.54mm] | Right Angle | Through Hole | Tin | Bag | View |
| LHA-XX-TRA-V0 | .100" [2.54mm] | Right Angle | Through Hole | Tin | Bag | View |
| LHA-XX-TRB | .100" [2.54mm] | Right Angle | Through Hole | Tin | Bag | View |
| LHA-XX-TS | .100" [2.54mm] | Vertical | Through Hole | Tin | Bag | View |
| LHA-XX-TS-V0 | .100" [2.54mm] | Vertical | Through Hole | Tin | Bag | View |
| LHA-XX-TS-V0-HT | .100" [2.54mm] | Vertical | Through Hole | Tin | Bag | View |
| LHAB-D-XX-TS-HT-V0 | .100" [2.54mm] | Vertical | Through Hole | Tin | Bag | View |
| LHAB-XX-TR-V0 | .100" [2.54mm] | Vertical | Through Hole | Tin | Bag | View |
| LHAB-XX-TS-V0 | .100" [2.54mm] | Vertical | Through Hole | Tin | Bag | View |
| LHAD-D-XX-GS-V0 | .100" [2.54mm] | Vertical | Through Hole | Gold | Bag | View |
| LHAD-D-XX-TS-V0 | .100" [2.54mm] | Vertical | Through Hole | Tin | Bag | View |
| LHAD-E-XX-TS-V0 | .100" [2.54mm] | Vertical | Through Hole | Tin | Bag | View |
| LHB-XX-SA1 | .156" [3.96mm] | Vertical | Through Hole | Tin | Bag | View |
| LHB-XX-SA1-G | .156" [3.96mm] | Vertical | Through Hole | Gold | Bag | View |
| LHB-XX-SA1-MT | .156" [3.96mm] | Vertical | Through Hole | Tin | Bag | View |
| LHB-XX-SA1-R | .156" [3.96mm] | Vertical | Through Hole | Tin | Bag | View |
| LHB-XX-SA1-SMT | .156" [3.96mm] | Vertical | Surface Mount | Tin | | View |
| LHB-XX-SA1-V0-HT | .156" [3.96mm] | Vertical | Through Hole | Tin | Bag | View |
| LHB-XX-SA2 | .156" [3.96mm] | Vertical | Through Hole | Tin | Bag | View |
| LHB-XX-SB1 | .156" [3.96mm] | Right Angle | Through Hole | Tin | Bag | View |
| LHB-XX-SB2 | .156" [3.96mm] | Right Angle | Through Hole | Tin | Bag | View |
| LHC-XX-GS | .156" [3.96mm] | Vertical | Through Hole | Gold | Bag | View |
| LHC-XX-GS-V0 | .156" [3.96mm] | Vertical | Through Hole | Gold | Bag | View |
| LHC-XX-MTS-V0 | .156" [3.96mm] | Vertical | Through Hole | Tin | Bag | View |
| LHC-XX-TRA | .156" [3.96mm] | Vertical | Through Hole | Tin | Bag | View |
| LHC-XX-TRA-V0 | .156" [3.96mm] | Right Angle | Through Hole | Tin | Bag | View |
| LHC-XX-TRA-V0-HT | .156" [3.96mm] | Right Angle | Through Hole | Tin | Bag | View |
| LHC-XX-TS | .156" [3.96mm] | Vertical | Through Hole | Tin | Bag | View |
| LHC-XX-TS-SMT-V0 | .156" [3.96mm] | Vertical | Surface Mount | Tin | | View |
| LHC-XX-TS-V0 | .156" [3.96mm] | Vertical | Through Hole | Tin | Bag | View |
| LHC-XX-TS-V0-BK | .156" [3.96mm] | Vertical | Through Hole | Tin | Bag | View |
| LHD-XX-GS-V0 | .156" [3.96mm] | Vertical | Through Hole | Gold | Bag | View |
| LHD-XX-SGS-V0 | .156" [3.96mm] | Vertical | Through Hole | Gold | Bag | View |

## HEADERS

| PART NUMBER | PITCH | MOUNTING ORIENTATION | MOUNTING | PLATING | PACKAGING | PRODUCT DATA |
|---|---|---|---|---|---|---|
| LHD-XX-TRA | .156" [3.96mm] | Right Angle | Through Hole | Tin | Bag | View |
| LHD-XX-TRA-HT-V0 | .156" [3.96mm] | Right Angle | Through Hole | Tin | Bag | View |
| LHD-XX-TRA-V0 | .156" [3.96mm] | Right Angle | Through Hole | Tin | Bag | View |
| LHD-XX-TRB | .156" [3.96mm] | Right Angle | Through Hole | Tin | Bag | View |
| LHD-XX-TRB-V0 | .156" [3.96mm] | Right Angle | Through Hole | Tin | Bag | View |
| LHD-XX-TS | .156" [3.96mm] | Vertical | Through Hole | Tin | Bag | View |
| LHD-XX-TS-HT-V0 | .156" [3.96mm] | Vertical | Through Hole | Tin | Bag | View |
| LHD-XX-TS-V0 | .156" [3.96mm] | Vertical | Through Hole | Tin | Bag | View |
| LHDA-XX-TRA | .156" [3.96mm] | Right Angle | Through Hole | Tin | Bag | View |
| LHDA-XX-TS-BK | .156" [3.96mm] | Vertical | Through Hole | Tin | Bag | View |
| LHF-XX-SA1 | .200" [5.08mm] | Vertical | Through Hole | Tin | Bag | View |
| LHF-XX-SA2 | .200" [5.08mm] | Vertical | Through Hole | Tin | Bag | View |
| LHF-XX-SB1 | .200" [5.08mm] | Right Angle | Through Hole | Tin | Bag | View |
| LHF-XX-SB2 | .200" [5.08mm] | Right Angle | Through Hole | Tin | Bag | View |
| LHJ-XX-TS | .098" [2.50mm] | Vertical | Through Hole | Tin | Bag | View |
| LHS-XX-GRA | .100" [2.54mm] | Right Angle | Through Hole | Gold | Bag | View |
| LHS-XX-GS | .100" [2.54mm] | Vertical | Through Hole | Gold | Bag | View |
| LHS-XX-MTS-SMT | .100" [2.54mm] | Vertical | Surface Mount | Tin | | View |
| LHS-XX-TRA | .100" [2.54mm] | Right Angle | Through Hole | Tin | Bag | View |
| LHS-XX-TRB | .100" [2.54mm] | Right Angle | Through Hole | Tin | Bag | View |
| LHS-XX-TS | .100" [2.54mm] | Vertical | Through Hole | Tin | Bag | View |
| LHS-XX-TS-P | .100" [2.54mm] | Vertical | Through Hole | Tin | Bag | View |
| LHS-XX-TS-PB | .100" [2.54mm] | Vertical | Through Hole | Tin | Bag | View |
| LHS-XX-TS-SMT | .100" [2.54mm] | Vertical | Surface Mount | Tin | | View |
| LHT-XX-TR | .100" [2.54mm] | Right Angle | Through Hole | Tin | Bag | View |
| LHTA-XX-TS | .100" [2.54mm] | Vertical | Through Hole | Tin | Bag | View |

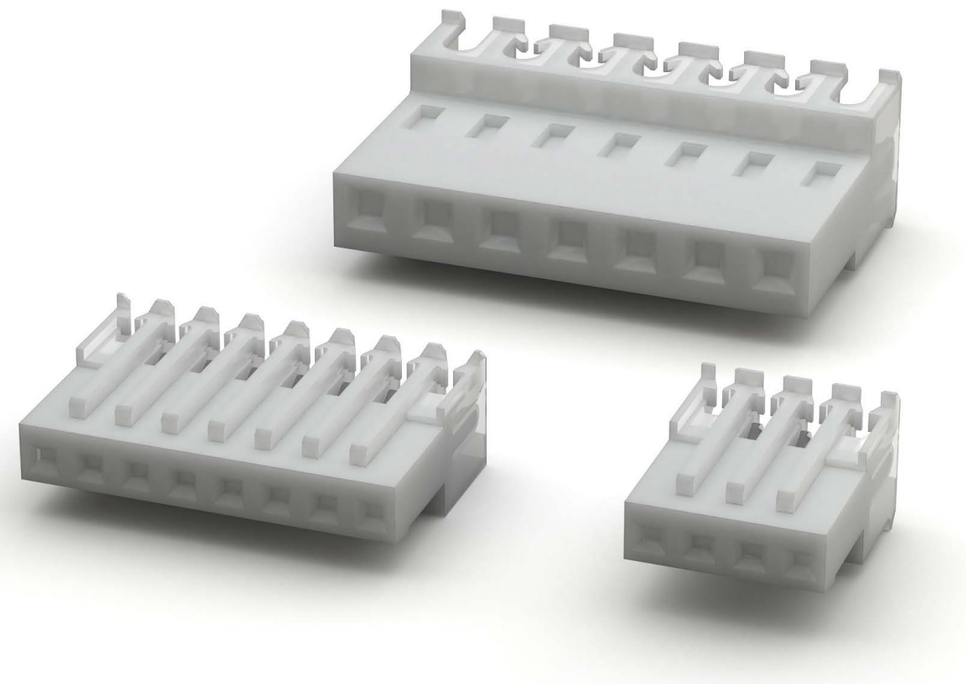
## HOUSINGS

| PART NUMBER | PITCH | PRODUCT DATA |
|---|---|---|
| CDH-XX | .100" [2.54mm] | View |
| MTA-XX | .100" [2.54mm] | View |
| MTB-XX | .156" [3.96mm] | View |
| MTS-XX | .100" [2.54mm] | View |

## TERMINALS

| PART NUMBER | PITCH | PLATING | PRODUCT DATA |
|---|---|---|---|
| CDH-C-R | .100" [2.54mm] | Tin | View |
| MTA-C-X | .100" [2.54mm] | Tin | View |
| MTB-C-X | .156" [3.96mm] | Tin | View |
| MTC-C-X | .156" [3.96mm] | Tin | View |
| MTS-C-X | .100" [2.54mm] | Tin | View |
| MTS-C-X-G | .100" [2.54mm] | Gold | View |

Adam Tech's Wire to Board Connectors provide IDC termination for various cable types and wire gauges. These connectors are offered in 2-20 positions, .100" [2.54mm] or .156" [3.96mm] pitch, long or short body style, and closed end or feed through types. Wire gauges ranging from 18 AWG to 28 AWG can be accommodated by this product line. Other options include mounting type and insulator color.



## FEATURES & SPECIFICATIONS

### FEATURES:
Easily mass terminates discrete wire and pre-notched flat cable
Housings have pre-inserted IDC contacts
High performance Gas tight IDC connection
Optional Feed through or Closed end cover

### SPECIFICATIONS:

### Material:
Insulator: Nylon 66, rated UL94V-2
Insulator Color: Natural
Contacts: Phosphor bronze and Brass
Contact Plating:
Tin over copper underplate overall

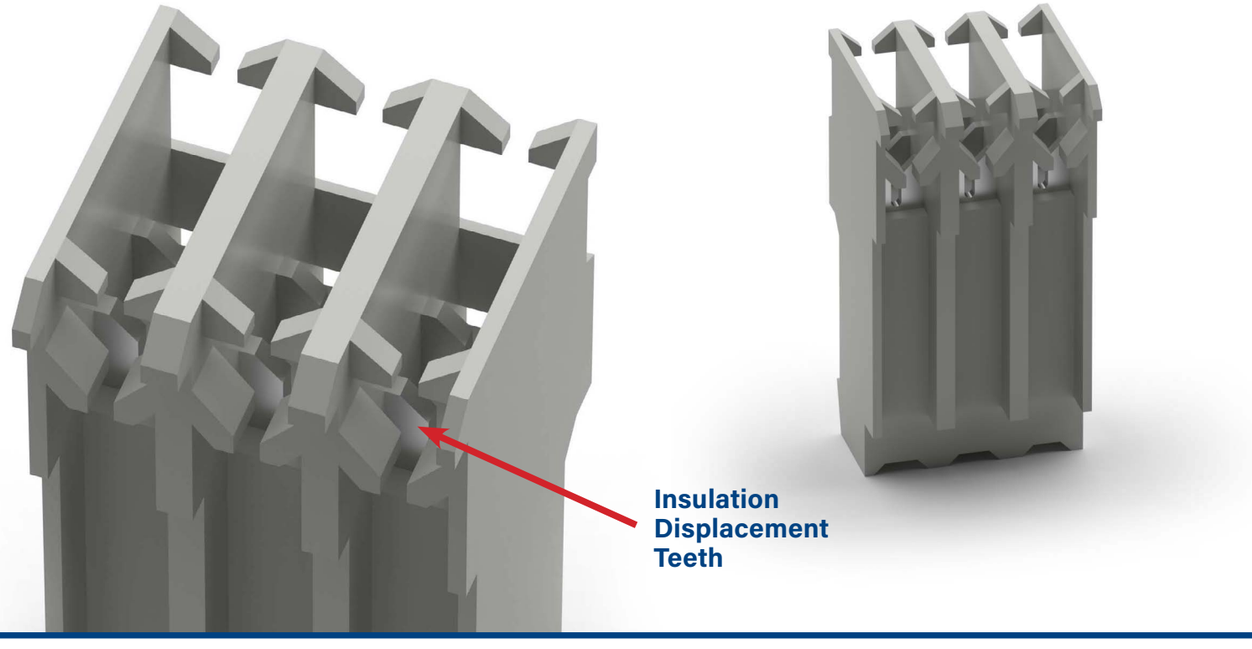
### Electrical:
Operating voltage: 250V AC max.
Current rating:
.100" centers: 4. Amp max.
.156" centers: 6 Amp max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Mating force:
.100" & .156" Center: 1.3 lbs max
Unmating force:
.100" Center: 0.5 lbs min
.156" Center: 1.3 lbs min
.100" Centers: Wire size: 28 Awg to 22 Awg
.156" Centers: Wire size: 26 Awg to 18 Awg

### Temperature Rating:
Operating temperature range: -40°C to +105°C

### PACKAGING:
Anti-ESD plastic bags

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053




| PART NUMBER | PITCH | BODY STYLE | WIRE AWG | POLARIZING | TYPE | PRODUCT DATA |
|---|---|---|---|---|---|---|
| MTD-A-XX-X-1 | .100" [2.54mm] | Short | 22-28 | No | Feed Through | View |
| MTD-A-XX-X-2 | .100" [2.54mm] | Short | 22-28 | No | Closed End | View |
| MTD-A1-XX-A-1 | .100" [2.54mm] | Long | 18 | No | Feed Through | View |
| MTD-A1-XX-B-1 | .100" [2.54mm] | Long | 20 | No | Feed Through | View |
| MTD-A1-XX-C-1 | .100" [2.54mm] | Long | 22 | No | Feed Through | View |
| MTD-A1-XX-D-1 | .100" [2.54mm] | Long | 24 | No | Feed Through | View |
| MTD-A1-XX-E-1 | .100" [2.54mm] | Long | 26 | No | Feed Through | View |
| MTD-A1-XX-F-1 | .100" [2.54mm] | Long | 28 | No | Feed Through | View |
| MTD-AC-XX | .100" [2.54mm] | | | | Cover | View |
| MTD-B-XX-X-1 | .156" [3.96mm] | Short | 18-26 | No | Feed Through | View |
| MTD-B-XX-X-2 | .156" [3.96mm] | Short | 18-26 | No | Closed End | View |
| MTD-B1-XX-A-1 | .156" [3.96mm] | Long | 18 | No | Feed Through | View |
| MTD-B1-XX-B-1 | .156" [3.96mm] | Long | 20 | No | Feed Through | View |
| MTD-B1-XX-C-1 | .156" [3.96mm] | Long | 22 | No | Feed Through | View |
| MTD-B1-XX-D-1 | .156" [3.96mm] | Long | 24 | No | Feed Through | View |
| MTD-B1-XX-E-1 | .156" [3.96mm] | Long | 26 | No | Feed Through | View |
| MTD-B1-XX-F-1 | .156" [3.96mm] | Long | 28 | No | Feed Through | View |
| MTD-BC-XX | .156" [3.96mm] | | | | Cover | View |

Adam Tech Spring Connectors, Battery Holders, Battery Snaps and Mobile Battery Connectors are designed to create connections and contain batteries in electronic equipment. This series includes battery holders and coin cell holders for AAA, AA, C, D, 9V and lithium coin cells. Adam Tech produces this series in a variety of terminations such as through hole PCB leads, SMT leads, wire leads and solder lugs. Custom lead lengths on wire configurations are also available.

## FEATURES & SPECIFICATIONS

### BATTERY HOLDER SPECIFICATIONS:

**Material:**
Insulator: Impact resistant Polypropylene, rated UL94-HB
9V Holder, ABS, Glass filled rated UL94-HB
Insulator Color: Black
Spring: Spring Steel, Nickel plated
Contacts: Spring steel, Nickel plated
Snap terminals: Brass, Nickel plated
Wire: 26 Awg, PVC
Electrical:
Operating voltage: 1.5V to 9V DC max.
Temperature Rating:
Operating temperature: -55°C to +85°C

### BATTERY SNAPS SPECIFICATIONS:

**Material:**
Soft PVC or rigid PP or PE
Snap terminals: Brass, nickel plated
Wire: 26 Awg stranded, UL1007, PVC insulation

**Electrical:**
Operating voltage: 9V max.

**Temperature Rating:**
Operating temperature: -55°C to +85°C

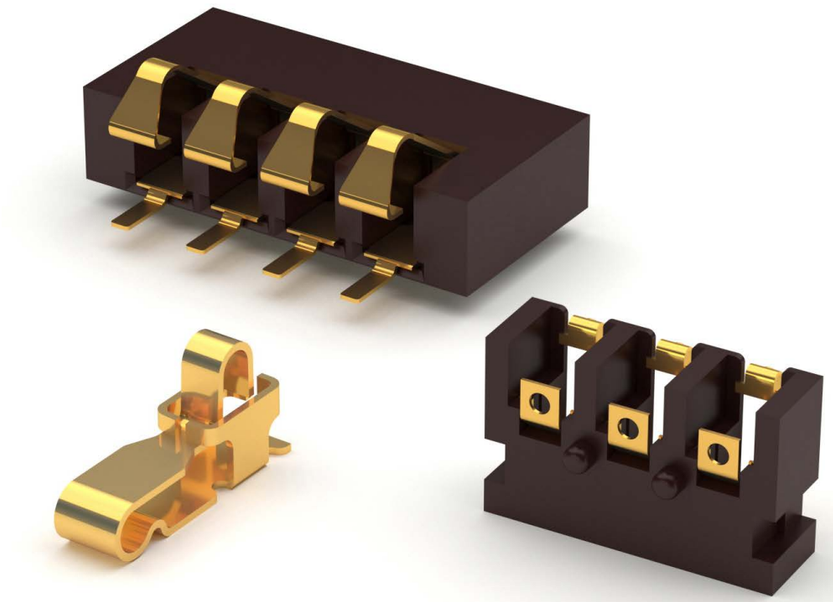
### COIN CELL HOLDER & MOBILE BATTERY CONNECTOR SPECIFICATIONS:

**Material:**
Thru-hole: PBT Thermoplastic rated UL-94-VO
SMT: Hi-Temp Thermoplastic rated UL-94-VO

**Electrical:**
Operating voltage: 9V max.

**Temperature Rating:**
Operating temperature: -55°C to +85°C

### APPROVALS AND CERTIFICATIONS:
Manufactured with UL Recognized Materials



## Spring Connectors

| PART NUMBER | PRODUCT TYPE | BATTERY TYPE (BATTERY HOLDERS) | BODY TYPE (BATTERY HOLDERS) | PRODUCT DATA |
|---|---|---|---|---|
| BS-1-1 | Battery Snap | 9 Volt | 9 Volt Battery Snap | View |
| BS-2-1 | Battery Snap | 9 Volt | 9 Volt Battery Snap | View |
| BS-4-1 | Battery Snap | 9 Volt | 9 Volt Battery Snap | View |
| BS-5-1 | Battery Snap | 9 Volt | 9 Volt Battery Snap | View |
| BS-6-1 | Battery Snap | 9 Volt | 9 Volt Battery Snap | View |
| MBC-P-03-TR | Mobile Battery Connector | | | View |
| MBC-Q-03-TR | Mobile Battery Connector | | | View |
| MBC-R-04-TR | Mobile Battery Connector | | | View |
| MBC-S-04-TR | Mobile Battery Connector | | | View |
| MBC-T-04-TR | Mobile Battery Connector | | | View |
| MBC-U-04-TR | Mobile Battery Connector | | | View |
| MBC-V-05-TR | Mobile Battery Connector | | | View |
| MBC-W-XX-TR | Mobile Battery Connector | | | View |

## BATTERY HOLDER PART NUMBER CONFIGURATION

**BH - 01 - 3 - T/R**

| SERIES | TYPE | TERMINATION | OPTIONS: |
|---|---|---|---|
| **BH** = *Battery Holder* | **01** *thru* **41** | **1** = *PCB Thru Hole*<br>**2** = *Male/Female Snaps*<br>**3** = *Solder Terminals*<br>**4** = *Wire Leads 5.90 [150.00]*<br>**5** = *SMT* | *Add designator(s) to end of part number*<br>**T/R** = *tape and reel packaging* |

## BATTERY SNAPS

**BS - 1 - 1**

| SERIES | TYPE | LEADS |
|---|---|---|
| **BS** = *Battery Snap* | **1** *thru* **6** | **1** = *Standard length*<br>**2** = *Special length* |

## MOBILE BATTERY CONNECTOR

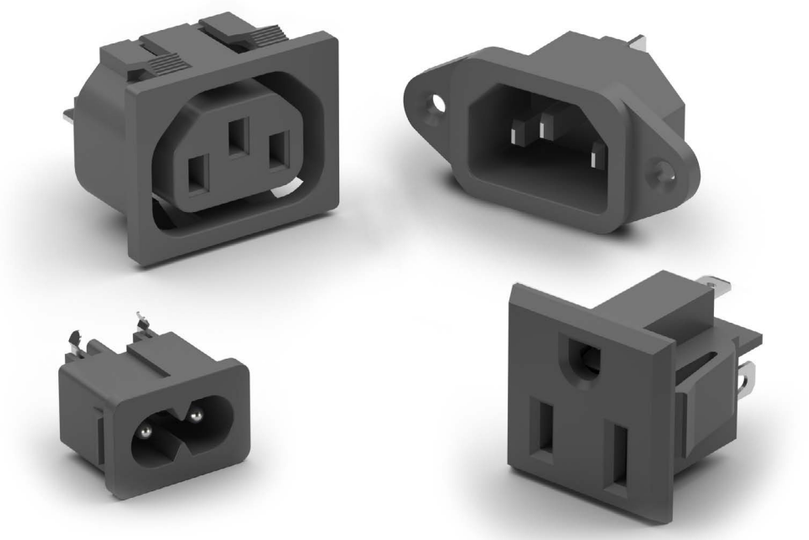
**MBC - A - 2 - T/R**

| SERIES | TYPE | POSITIONS | OPTIONS: |
|---|---|---|---|
| **MBC** = *Mobile Battery Connector* | **P** *thru* **W** | **2** *thru* **8** | *Add designator(s) to end of part number*<br>**T/R** = *tape and reel packaging* |

# Battery Holders

| PART NUMBER | PRODUCT TYPE | BATTERY TYPE (BATTERY HOLDERS) | BODY TYPE (BATTERY HOLDERS) | PRODUCT DATA |
|---|---|---|---|---|
| BH-100A-1 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-102B-5 | Battery Holder | AAA | 2 Cell | View |
| BH-105A-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-108A-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-109A-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-109B-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-113A-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-122A-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-123A-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-124A-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-125A-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-127A-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-128A-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-129A-5 | Battery Holder | AAA | 1 Cell | View |
| BH-25D-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-25E-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-25F-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-27A-5-G-WT | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-28A-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-32C-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-32D-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-32E-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-32F-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-32H-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-35A-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-44A-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-44B-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-44C-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-44D-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-44E-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-44F-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-44G-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-49A-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-49A-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-49A-5-T-BK | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-49B-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-49C-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-49C-1-BK | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-49E-5 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-49E-5-BK | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-50B-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-50C-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-55-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-57A-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-67A-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-67A-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-67B-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-67D-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-67E-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-68A-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-74B-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-74C-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-74E-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-74F-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-74G-5-P | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-74H-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-74K-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-74L-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-74M-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-74N-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-74P-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-76A-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-78B-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-80A-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-80B-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-82-1-2B | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-82-5-2B | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-90-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-91-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-92-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-92A-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-94A-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-95A-5 | Battery Holder | Coin Cell | Coin Cell Surface Mount | View |
| BH-98-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |
| BH-98R-1 | Battery Holder | Coin Cell | Coin Cell Through Hole | View |

Adam Tech IEC & Mini IEC series AC Inlets and Outlets are primary power receptacles designed, manufactured, tested and approved to UL, CSA, VDE and other applicable international specications including IEC-60320 and CEE-22. Adam Tech offers a wide variety of body styles, shapes and orientations to accommodate most class I & II applications with two or three blade contacts in both IEC and Mini IEC configurations. Mounting choices include screw holes and snap-in versions and four termination styles. Options of ganged ports or receptacle with integral fuse holder are also available.



## FEATURES & SPECIFICATIONS

### FEATURES:
IEC & Mini-IEC types
IEC-60320, CEE-22 Compliant
UL, CSA and VDE approved
Multitude of Body Styles
Choice of terminations
Option of Integral Fuse Holder

### MATING CONNECTORS:
Adam Tech PC series power cords and all standard international
IEC 60320 power supply cords.

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File Nos. E224051, E224052
ENEC Approved European Norm Electrical Certification

### SPECIFICATIONS:

**Material:**
Insulator: Polycarbonate or Nylon 66, glass filled, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze or Brass

**Plating:**
Nickel over copper underplate. (Solder terminals: Tin over copper underplate)

**Electrical:**
Operating Voltage: 250V AC
Current Rating: IEC - UL & CSA: 15 Amps Max,
VDE: 10 Amps Max.
Mini IEC - UL, CSA & VDE 2.5 Amps Max.
Insulation Resistance: 100 MΩ Min. @ 500V DC
Dielectric Withstanding Voltage: 2000V AC for 1 Minute

**Temperature Rating:**
Operation Temperature: -25°C ~ +70°C

## PART NUMBER CONFIGURATION

**IEC - A - 1 - 150**

| SERIES | BODY STYLE | TERMINALS | PANEL THICKNESS |
|---|---|---|---|
| **IEC** = *International inlet/outlet* | *See below* | **1** = *.187" Quick-connect terminals*<br>**2** = *.250" Quick-connect terminals*<br>**3** = *Solder terminals .157" [4.0mm]*<br>**4** = *Right Angle PCB mount*<br>**5** = *Solder Terminals .098" [2.5mm]* | *(for body styles C, D & J only)*<br>*Blank = Universal Snap*<br>**080** = *0.8mm Panel*<br>**120** = *1.2mm Panel*<br>**150** = *1.5mm Panel*<br>**200** = *2.0mm Panel*<br>**300** = *3.0mm Panel* |

### BODY STYLE

**A** = *Male Inlet, Screw-on panel mount*
**B** = *Female Outlet, Screw-on panel mount*
**C** = *Male Inlet, Snap-in panel mount*
**D** = *Female Outlet, Snap-in panel mount*
**E** = *Male Inlet, Right Angle PC board mount with mounting flange (Specify EW, EX, EY or EZ)*
**F** = *Male Inlet, Screw on panel mount with 5 x 20mm fuse holder*
**G** = *Male Inlet, Snap-in panel mount with 5 x 20mm fuse holder*
**HS** = *Inlet/Outlet, snap-in panel mount*
**HR** = *Inlet/outlet, snap-in panel mount, right angle PCB mount*
**J** = *Male inlet, right angle PCB & tail with snap-in panel mounting*
**NA** = *Mini-IEC right angle, snap-in*
**NB** = *Mini-IEC right angle, slide-in*
**NB-A** = *Mini-IEC right angle, slide-in with pegs*
**NC** = *Mini-IEC right angle, with flush flange*
**NC-A** = *Mini-IEC right angle, with extended face*
**ND** = *Mini-IEC right angle, with enclosed body*
**NF** = *Mini-IEC right angle, polarized with flange*
**NH** = *Mini-IEC right angle, with ground pin*
**NH-A** = *Mini-IEC right angle, flange mount with ground pin*
**GS** = *Fused inlet with switch snap in panel mount*
**FS** = *Fused inlet with switch screw on panel mount*
**M** = *Female outlet, 20 AMP, Flanged*
**N** = *Male inlet, 20 AMP, Snap-In*

| PART NUMBER | TYPE | STYLE | TERMINALS | PANEL THICKNESS | PRODUCT DATA |
|---|---|---|---|---|---|
| IEC-A-1 | IEC | Male Inlet, Screw On Panel Mount | .187" QD Terminals | 3.0mm | View |
| IEC-A-2 | IEC | Male Inlet, Screw On Panel Mount | .250" QD Terminals | 3.0mm | View |
| IEC-A-3 | IEC | Male Inlet, Screw On Panel Mount | .157" Solder Terminals | 3.0mm | View |
| IEC-A-4 | IEC | Male Inlet, Screw On Panel Mount | Right Angle PCB Mount | 3.0mm | View |
| IEC-B-1 | IEC | Female Outlet, Screw On Panel Mount | .187" QD Terminals | 3.2mm | View |
| IEC-B-2 | IEC | Female Outlet, Screw On Panel Mount | .250" QD Terminals | 3.2mm | View |
| IEC-C-1 | IEC | Male Inlet, Snap In Panel Mount | .187" QD Terminals | 3.0mm | View |
| IEC-C-1-080 | IEC | Male Inlet, Snap In Panel Mount | .187" QD Terminals | 0.8mm | View |
| IEC-C-1-150 | IEC | Male Inlet, Snap In Panel Mount | .187" QD Terminals | 1.5mm | View |
| IEC-C-1-400 | IEC | Male Inlet, Snap In Panel Mount | .187" QD Terminals | 4.0mm | View |
| IEC-C-2 | IEC | Male Inlet, Snap In Panel Mount | .250" QD Terminals | 3.0mm | View |
| IEC-C-2-080 | IEC | Male Inlet, Snap In Panel Mount | .250" QD Terminals | 0.8mm | View |
| IEC-C-2-150 | IEC | Male Inlet, Snap In Panel Mount | .250" QD Terminals | 1.5mm | View |
| IEC-C-2-400 | IEC | Male Inlet, Snap In Panel Mount | .250" QD Terminals | 4.0mm | View |
| IEC-C-3 | IEC | Male Inlet, Snap In Panel Mount | .157" Solder Terminals | 3.0mm | View |
| IEC-C-3-080 | IEC | Male Inlet, Snap In Panel Mount | .157" Solder Terminals | 0.8mm | View |
| IEC-C-3-150 | IEC | Male Inlet, Snap In Panel Mount | .157" Solder Terminals | 1.5mm | View |
| IEC-C-3-400 | IEC | Male Inlet, Snap In Panel Mount | .157" Solder Terminals | 4.0mm | View |
| IEC-C-5 | IEC | Male Inlet, Snap In Panel Mount | .098" Solder Terminals | 3.0mm | View |
| IEC-C-5-080 | IEC | Male Inlet, Snap In Panel Mount | .098" Solder Terminals | 0.8mm | View |
| IEC-C-5-150 | IEC | Male Inlet, Snap In Panel Mount | .098" Solder Terminals | 1.5mm | View |
| IEC-C-5-400 | IEC | Male Inlet, Snap In Panel Mount | .098" Solder Terminals | 4.0mm | View |
| IEC-D-1 | IEC | Female Outlet, Snap In Panel Mount | .187" QD Terminals | 3.0mm | View |
| IEC-D-2 | IEC | Female Outlet, Snap In Panel Mount | .250" QD Terminals | 3.0mm | View |
| IEC-D-3 | IEC | Female Outlet, Snap In Panel Mount | .157" Solder Terminals | 3.0mm | View |
| IEC-D-SX-150 | IEC | Stacked Female Outlet, Snap In Panel Mount | | 3.0mm | View |
| IEC-EW-4 | IEC | Male Inlet, Right Angle PCB Mount with Mounting Flange | Right Angle PCB Mount | 3.0mm | View |
| IEC-EZ-4 | IEC | Male Inlet, Right Angle PCB Mount with Mounting Flange | Right Angle PCB Mount | 3.0mm | View |
| IEC-F-1 | IEC | Male Inlet, Screw On Panel Mount with Fuse Holder | .187" QD Terminals | 3.0mm | View |
| IEC-F-2 | IEC | Male Inlet, Screw On Panel Mount with Fuse Holder | .250" QD Terminals | 3.0mm | View |
| IEC-FS-1 | IEC | Fused Inlet with Fused Screw On Panel Mount | .187" QD Terminals | 3.0mm | View |
| IEC-G-1 | IEC | Male Inlet, Snap In Panel Mount with Fuse Holder | .187" QD Terminals | 3.0mm | View |
| IEC-G-2 | IEC | Male Inlet, Snap In Panel Mount with Fuse Holder | .250" QD Terminals | 3.0mm | View |
| IEC-G-5 | IEC | Male Inlet, Snap In Panel Mount with Fuse Holder | .157" Solder Terminals | 3.0mm | View |
| IEC-GS-1-100 | IEC | Fused Inlet with Switch Snap in Panel Mount | .187" QD Terminals | 1.0mm | View |
| IEC-GS-1-150 | IEC | Fused Inlet with Switch Snap in Panel Mount | .187" QD Terminals | 1.5mm | View |
| IEC-GS-1-200 | IEC | Fused Inlet with Switch Snap in Panel Mount | .187" QD Terminals | 2.0mm | View |
| IEC-HS-1 | IEC | Inlet/Outlet Combination, Snap In Panel Mount | .187" QD Terminals | 3.0mm | View |
| IEC-J-4-150 | IEC | Male Inlet, Right Angle PCB Mount | Right Angle PCB Mount | 1.5mm | View |
| IEC-J-4-200 | IEC | Male Inlet, Right Angle PCB Mount | Right Angle PCB Mount | 2.0mm | View |
| IEC-J-4-300 | IEC | Male Inlet, Right Angle PCB Mount | Right Angle PCB Mount | 3.0mm | View |
| IEC-M-1 | IEC | Male Inlet, Screw On Panel Mount | .187" QD Terminals | 3.0mm | View |

| PART NUMBER | TYPE | STYLE | TERMINALS | PANEL THICKNESS | PRODUCT DATA |
|---|---|---|---|---|---|
| IEC-NA-4 | Mini IEC | Mini IEC, Right Angle Snap In | Right Angle PCB Mount | 2.6mm | View |
| IEC-NC-A-4 | Mini IEC | Mini IEC, Right Angle with Extended Face | Right Angle PCB Mount | 4.0mm | View |
| IEC-ND-4 | Mini IEC | Mini IEC, Right Angle with Enclosed Body | Right Angle PCB Mount | 3.0mm | View |
| IEC-NF-4 | Mini IEC | Mini IEC, Right Angle Polarized with Flange | Right Angle PCB Mount | 3.0mm | View |
| IEC-NH-4 | Mini IEC | Mini IEC, Right Angle with Ground Pin | Right Angle PCB Mount | 4.0mm | View |
| NEMA-5-1-A | NEMA | NEMA Receptacle | .187" QD Terminals | 3.4mm | View |
| NEMA-5-1-B | NEMA | NEMA Receptacle | .187" QD Terminals | 3.4mm | View |
| NEMA-5-15-PC | NEMA | NEMA Receptacle | Vertical PCB Mount | 5.2mm | View |
| NEMA-5-2 | NEMA | NEMA Receptacle | | 3.5mm | View |
| NEMA-5-3 | NEMA | NEMA Receptacle | IDC Vertical Orientation | 5.2mm | View |
| NEMA-5-3-HW | NEMA | NEMA Receptacle | IDC Horizontal Orientation | 5.0mm | View |
| NEMA-5-3-RA-AN4860-1-065 | NEMA | Female Outlet, Snap In Panel Mount | Right Angle PCB Mount | 3.0mm | View |
| PA-001 | Power Adapter | Adapter: NEMA Plug to USB Type A Socket | | | View |
| PA-002 | Power Adapter | Adapter: NEMA Plug to DC Plug | | | View |
| PA-003 | Power Adapter | Adapter: NEMA Plug to DC Plug | | | View |
| PA-004 | Power Adapter | Adapter: NEMA Plug to DC Plug | | | View |
| PA-005 | Power Adapter | Adapter: NEMA Plug to DC Plug | | | View |
| PA-006 | Power Adapter | Adapter: IEC Socket to DC Plug | | | View |
| PA-007-X | Power Adapter | Adapter: NEMA Plug to DC Plug | | | View |
| PA-008-X | Power Adapter | Adapter: NEMA Plug to DC Plug | | | View |
| PA-009-X | Power Adapter | Adapter: NEMA Plug to DC Plug | | | View |
| PA-010 | Power Adapter | Adapter: NEMA Plug to USB Type A Socket | | | View |
| PA-011 | Power Adapter | Adapter: IEC Socket to DC Plug | | | View |
| PA-012 | Power Adapter | Adapter: NEMA Plug to DC Plug | | | View |
| PA-013 | Power Adapter | Adapter: NEMA Plug to DC Plug | | | View |
| PA-014 | Power Adapter | Adapter: NEMA Plug to USB Type C Socket | | | View |
| PC-0102076AC03 | Power Cord | | | | View |
| PC-0103150BA03 | Power Cord | | | | View |

# Power Line Filters

Adam Tech's EMI/RFI Power Line Filters are designed to block the incoming and outgoing interference of high-frequency signals. This allows devices to run without interruption. Adam Tech's power line filters have a voltage rating of 115/250VAC, and current ratings ranging from 1A to 20A. A variety of options are available, including outline, mounting, and switches.



## FEATURES & SPECIFICATIONS

### FEATURES:

Line filter type
Flanged panel or chassis mount
115/250VAC voltage rating
Current ratings ranging from 1 to 20 Amps
Fused option
Switch option
Various termination options including quick connect, wire leads, terminal block, and screw
Ideal for switching power supplies
Prevents electromagnetic interference signals from reaching the input power line or the equipment

### APPLICATIONS:

Medical
Industrial
Computers
Household appliances

### SPECIFICATIONS:

#### Electrical:

Voltage rating: 115/250VAC
Current rating range: 1 to 20A RMS max
Leakage current (each line to ground):
  115VAC/60HZ: 0.3mA to 0.5mA max
  250VAC/50HZ: 0.6mA to 1.0mA max
Hipot rating (for 1 minute):
  A. Line to ground: 2,250 VDC
  B. Line to line: 500 or 1450 VDC
IR: 50 Mohms @500 VDC any input or output to ground

#### Temperature Rating:

Operating temperature range: -25°C to +100°C

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E244331

| PART NUMBER | FILTER TYPE | CURRENT RATING | VOLTAGE RATING | MOUNTING TYPE | TERMINATION | IEC 60320 INLET | FUSED | SWITCHED | MEDICAL GRADE | PERFORMANCE | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PLF-10D32 | 1 Phase EMI Filter | 10 Amp | 120/250V AC | Chassis Mount | Faston .250" [6.35mm] | No | Non-Fused | No | No | Standard | View |
| PLF-10D32-CN | 1 Phase EMI Filter | 10 Amp | 120/250V AC | Chassis Mount | Faston .250" [6.35mm] | No | Non-Fused | No | No | Standard | View |
| PLF-10DZ2KR | 1 Phase EMI Filter | 10 Amp | 120/250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | No | Fused | Yes | No | Standard | View |
| PLF-10DZ2R | 1 Phase EMI Filter | 10 Amp | 120/250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | No | Fused | No | No | Standard | View |
| PLF-110 SERIES | Dual Stage EMI Filter | 1-100 Amp | 250V AC | Chassis Mount | Faston .250" [6.35mm] or Screw | No | Non-Fused | No | Yes | Standard or High | View |
| PLF-11A1-10A-Q | 1 Phase EMI Filter | 10 Amp | 115/250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | Yes | Non-Fused | No | No | Standard | View |
| PLF-11A1-10A-Q-R5 | 1 Phase EMI Filter | 10 Amp | 115/250V AC | Chassis Mount | Faston .250" [6.35mm] | Yes | Non-Fused | No | Yes | Standard | View |
| PLF-11A1-6A-Q | 1 Phase EMI Filter | 6 Amp | 115/250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | Yes | Non-Fused | No | No | Standard | View |
| PLF-11A1-6A-Q-R5 | 1 Phase EMI Filter | 6 Amp | 115/250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | Yes | Non-Fused | No | Yes | Standard | View |
| PLF-11A4-10A-Q | 1 Phase EMI Filter | 10 Amp | 115/250V AC | Snap-In Panel Mount | Faston .250" [6.35mm] | Yes | Non-Fused | No | No | Standard | View |
| PLF-11B1-10A-Q-R | 1 Phase EMI Filter | 10 Amp | 115/250V AC | Chassis Mount | Faston .250" [6.35mm] | Yes | Fused | No | No | Standard | View |
| PLF-11B1-6A-Q-R | 1 Phase EMI Filter | 6 Amp | 115/250V AC | Chassis Mount | Faston .250" [6.35mm] | Yes | Fused | No | No | Standard | View |
| PLF-11B2-10A-Q | 1 Phase EMI Filter | 10 Amp | 115/250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | Yes | Fused | No | No | Standard | View |
| PLF-11B2-3A-Q-R5 | 1 Phase EMI Filter | 3 Amp | 115/250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | Yes | Fused | No | Yes | Standard | View |
| PLF-11B2-6A-Q-R5 | 1 Phase EMI Filter | 6 Amp | 115/250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | Yes | Fused | No | Yes | Standard | View |
| PLF-11B3-10A-Q | 1 Phase EMI Filter | 10 Amp | 115/250V AC | Snap-In Panel Mount | Faston .250" [6.35mm] | Yes | Non-Fused | No | No | Standard | View |
| PLF-11B6-10A-Q-R | 1 Phase EMI Filter | 10 Amp | 115/250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | Yes | Non-Fused | No | No | Standard | View |
| PLF-11B8-2A-Q-R | 1 Phase EMI Filter | 2 Amp | 115/250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | Yes | Non-Fused | No | No | Standard | View |
| PLF-11C1-10A-Q | 1 Phase EMI Filter | 10 Amp | 115/250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | Yes | Fused | Yes | No | Standard | View |
| PLF-11C2-10A-Q-R5 | 1 Phase EMI Filter | 10 Amp | 115/250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | Yes | Fused | Yes | Yes | Standard | View |
| PLF-11C2-6A-Q-R5 | 1 Phase EMI Filter | 6 Amp | 115/250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | Yes | Fused | Yes | Yes | Standard | View |
| PLF-11C4-10A-Q-R | 1 Phase EMI Filter | 10 Amp | 115/250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | Yes | Fused | Yes | No | Standard | View |

| PART NUMBER | FILTER TYPE | CURRENT RATING | VOLTAGE RATING | MOUNTING TYPE | TERMINATION | IEC 60320 INLET | FUSED | SWITCHED | MEDICAL GRADE | PERFORMANCE | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PLF-11C6-10A-Q | 1 Phase EMI Filter | 10 Amp | 115/250V AC | Snap-In Panel Mount | Faston .250" [6.35mm] | Yes | Fused | Yes | No | Standard | View |
| PLF-11C9-6A-Q-R | 1 Phase EMI Filter | 6 Amp | 115/250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | Yes | Fused | Yes | No | Standard | View |
| PLF-11E1-10A-Q | 1 Phase EMI Filter | 10 Amp | 115/250V AC | Chassis Mount | Faston .250" [6.35mm] | No | Non-Fused | No | No | Standard | View |
| PLF-11E1-10A-W-R | 1 Phase EMI Filter | 10 Amp | 115/250V AC | Chassis Mount | Wire Leads | No | Non-Fused | No | No | Standard | View |
| PLF-11E1-1A-W | 1 Phase EMI Filter | 1 Amp | 115/250V AC | Chassis Mount | Wire Leads | No | Non-Fused | No | No | Standard | View |
| PLF-11E1-6A-W | 1 Phase EMI Filter | 6 Amp | 115/250V AC | Chassis Mount | Wire Leads | No | Non-Fused | No | No | Standard | View |
| PLF-11E2-10A-W-R5 | 1 Phase EMI Filter | 10 Amp | 115/250V AC | Chassis Mount | Faston .250" [6.35mm] | No | Non-Fused | No | Yes | Standard | View |
| PLF-11E3-6A-Q-R | 1 Phase EMI Filter | 6 Amp | 115/250V AC | Chassis Mount | Faston .250" [6.35mm] | No | Non-Fused | No | No | Standard | View |
| PLF-120M SERIES | 1 Phase EMI Filter | 1-125 Amp | 250V AC | Chassis Mount | Faston .250" [6.35mm] | No | Non-Fused | No | Yes | Standard | View |
| PLF-12D2-10A-Q-R | 1 Phase EMI Filter | 10 Amp | 115/250V AC | Chassis Mount | Faston .250" [6.35mm] | No | Non-Fused | No | No | Standard | View |
| PLF-12D2-3A-Q-R | 1 Phase EMI Filter | 3 Amp | 115/250V AC | Chassis Mount | Faston .250" [6.35mm] | No | Non-Fused | No | No | Standard | View |
| PLF-12D4-20A-Q-R | 1 Phase EMI Filter | 20 Amp | 115/250V AC | Chassis Mount | Faston .250" [6.35mm] | No | Non-Fused | No | No | Standard | View |
| PLF-12E4-10A-Q-R | 1 Phase EMI Filter | 10 Amp | 115/250V AC | Chassis Mount | Faston .250" [6.35mm] | No | Non-Fused | No | No | Standard | View |
| PLF-12E4-20A-S-R | 1 Phase EMI Filter | 20 Amp | 115/250V AC | Chassis Mount | Screw | No | Non-Fused | No | No | Standard | View |
| PLF-130 SERIES | Dual Stage EMI Filter | 1-60 Amp | 250V AC | Chassis Mount | Faston .250" [6.35mm] or Screw | No | Non-Fused | No | Yes | High | View |
| PLF-140 SERIES | 1 Phase EMI Filter | 1-16 Amp | 250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | IEC C14 Inlet | Non-Fused | No | Yes | Standard | View |
| PLF-150 SERIES | 1 Phase EMI Filter | 1-10 Amp | 250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | IEC C14 Inlet | Fused | No | Yes | Standard | View |
| PLF-15D1 | 1 Phase EMI Filter | 15 Amp | 120/250V AC | Chassis Mount | Faston .250" [6.35mm] | No | Non-Fused | No | No | Standard | View |
| PLF-160 SERIES | 1 Phase EMI Filter | 1-10 Amp | 250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | IEC C14 Inlet | Fused | Yes | No | Standard | View |
| PLF-1DZ2KR | 1 Phase EMI Filter | 1 Amp | 250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | Yes | Fused | Yes | No | Standard | View |
| PLF-2132 SERIES | 1 Phase EMI Filter | 1-30 Amp | 250V AC | Chassis Mount | Faston .250" [6.35mm], Screw, or Wire Leads | No | Non-Fused | No | Yes or No | Standard, Safety, or Enhanced | View |
| PLF-21D3-10A-Q | Dual Stage EMI Filter | 10 Amp | 115/250V AC | Chassis Mount | Faston .250" [6.35mm] | No | Non-Fused | No | No | Standard | View |
| PLF-21D3-6A-Q-5 | Dual Stage EMI Filter | 6 Amp | 115/250V AC | Chassis Mount | Faston .250" [6.35mm] | No | Non-Fused | No | Yes | Standard | View |
| PLF-21D4-20A-Q-5 | Dual Stage EMI Filter | 20 Amp | 115/250V AC | Chassis Mount | Faston .250" [6.35mm] | No | Non-Fused | No | Yes | Standard | View |
| PLF-21D4-20A-S | Dual Stage EMI Filter | 20 Amp | 115/250V AC | Chassis Mount | Screw | No | Non-Fused | No | No | Standard | View |
| PLF-21D5-20A-T | Dual Stage EMI Filter | 20 Amp | 115/250V AC | Chassis Mount | Terminal Block | No | Non-Fused | No | No | Standard | View |
| PLF-21F2-40A-S | Dual Stage EMI Filter | 40 Amp | 115/250V AC | Chassis Mount | Screw | No | Non-Fused | No | Yes | Standard | View |
| PLF-21F3-50A-S | Dual Stage EMI Filter | 50 Amp | 115/250V AC | Chassis Mount | Screw | No | Non-Fused | No | Yes | Standard | View |
| PLF-2232 SERIES | Dual Stage EMI Filter | 1-36 Amp | 250V AC | Chassis Mount | Faston .250" [6.35mm], Screw, or Wire Leads | No | Non-Fused | No | Yes or No | Standard, Safety, or Enhanced | View |
| PLF-2233 SERIES | Dual Stage EMI Filter | 1-30 Amp | 250V AC | Chassis Mount | Faston .250" [6.35mm], Screw, or Wire Leads | No | Non-Fused | No | Yes or No | Standard, Safety, or Enhanced | View |
| PLF-22D1-3A-W-5 | Dual Stage EMI Filter | 3 Amp | 115/250V AC | Chassis Mount | Wire Leads | No | Non-Fused | No | Yes | Standard | View |
| PLF-22D1-6A-W | Dual Stage EMI Filter | 6 Amp | 115/250V AC | Chassis Mount | Wire Leads | No | Non-Fused | No | No | Standard | View |
| PLF-22D6-20A-Q | Dual Stage EMI Filter | 20 Amp | 115/250V AC | Chassis Mount | Faston .250" [6.35mm] | No | Non-Fused | No | No | Standard | View |
| PLF-27D1-3A-W | Dual Stage EMI Filter | 3 Amp | 115/250V AC | Chassis Mount | Wire Leads | No | Non-Fused | No | No | Standard | View |
| PLF-300 SERIES | 1 Phase EMI Filter | 1-16 Amp | 250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | IEC C14 Inlet | Non-Fused | No | No | Standard | View |
| PLF-310 SERIES | 1 Phase EMI Filter | 1-10 Amp | 250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | IEC C14 Inlet | Fused | No | No | Standard | View |
| PLF-310S SERIES | 1 Phase EMI Filter | 1-10 Amp | 250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | IEC C14 Inlet | Non-Fused | Yes | No | Standard | View |
| PLF-3132 SERIES | 3 Phase EMI Filter | 10-1000 Amp | 520V AC | Chassis Mount | Terminal Block or Copper Bus | No | Non-Fused | No | No | Standard or High Impedance | View |
| PLF-320 SERIES | 1 Phase EMI Filter | 1-10 Amp | 250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | IEC C14 Inlet | Fused | Yes | No | Standard | View |

# Power Line Filters

| PART NUMBER | FILTER TYPE | CURRENT RATING | VOLTAGE RATING | MOUNTING TYPE | TERMINATION | IEC 60320 INLET | FUSED | SWITCHED | MEDICAL GRADE | PERFORMANCE | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PLF-3202D SERIES | Dual Stage EMI Filter | 1-10 Amp | 250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | IEC C14 Inlet | Fused | Yes | No | High | View |
| PLF-3221 SERIES | 3 Phase EMI Filter | 10-230 Amp | 530V AC | Chassis Mount | Terminal Block | No | Non-Fused | No | No | Standard | View |
| PLF-3222 SERIES | 3 Phase EMI Filter | 10-230 Amp | 760V AC | Chassis Mount | Terminal Block | No | Non-Fused | No | No | High | View |
| PLF-3332 SERIES | 3 Phase EMI Filter | 10-1000 Amp | 520V AC | Chassis Mount | Copper Bus | No | Non-Fused | No | No | Standard or High Impedance | View |
| PLF-3333 SERIES | 3 Phase EMI Filter | 150-2500 Amp | 530/760V AC | Chassis Mount | Copper Bus | No | Non-Fused | No | No | Standard or High Voltage | View |
| PLF-3DZ2R | 1 Phase EMI Filter | 3 Amp | 125/250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | Yes | Fused | No | No | Standard | View |
| PLF-3PC | 1 Phase EMI Filter | 3 Amp | 120/250V AC | PCB | PCB | No | Non-Fused | No | No | Standard | View |
| PLF-410 SERIES | Dual Stage EMI Filter | 1-100 Amp | 250V AC | Chassis Mount | Faston .250" [6.35mm] or Screw | No | Non-Fused | No | No | High | View |
| PLF-420 SERIES | 1 Phase EMI Filter | 1-125 Amp | 250V AC | Chassis Mount | Faston .250" [6.35mm] or Screw | No | Non-Fused | No | No | Standard | View |
| PLF-420HP SERIES | 1 Phase EMI Filter | 1-50 Amp | 250V AC | Chassis Mount | Faston .250" [6.35mm] or Screw | No | Non-Fused | No | No | High or Very High | View |
| PLF-4233T SERIES | 3 Phase EMI Filter | 7-150 Amp | 440/520V AC | Chassis Mount | Terminal Block | No | | No | No | High | View |
| PLF-4233W SERIES | 3 Phase EMI Filter | 1-150 Amp | 440/520V AC | Chassis Mount | Faston .250" [6.35mm] or Screw | No | Non-Fused | No | No | Standard | View |
| PLF-4234W SERIES | 3 Phase 4 Wire EMI Filter | 1-150 Amp | 440/520V AC | Chassis Mount | Faston .250" [6.35mm] or Screw | No | Non-Fused | No | No | Standard | View |
| PLF-430 SERIES | Dual Stage EMI Filter | 1-60 Amp | 250V AC | Chassis Mount | Faston .250" [6.35mm] or Screw | No | Non-Fused | No | No | High | View |
| PLF-530 SERIES | 1 Phase EMI Filter | 1-10 Amp | 250V AC | PCB | PCB | No | Non-Fused | No | No | Standard | View |
| PLF-6DZ2KR | 1 Phase EMI Filter | 6 Amp | 120/250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | Yes | Fused | Yes | No | Standard | View |
| PLF-6DZ2R | 1 Phase EMI Filter | 6 Amp | 125/250V AC | Flanged Panel Mount | Faston .250" [6.35mm] | Yes | Fused | No | No | Standard | View |
| PLF-6DZB21 | 1 Phase EMI Filter | 6 Amp | 120/250V AC | Chassis Mount | Faston .250" [6.35mm] | No | Non-Fused | No | No | Standard | View |





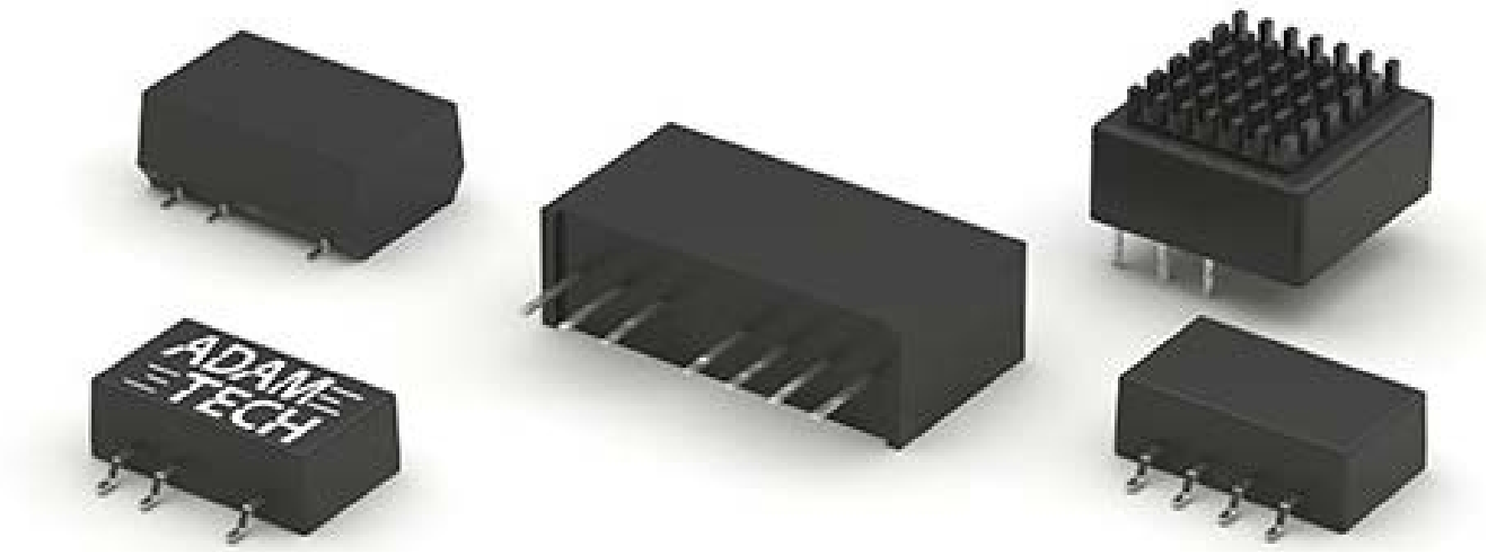







# DC-DC Converters

Adam Tech's DC-DC Converters are designed to effectively convert direct current (DC) from one voltage level to another. This makes them ideal for applications that utilize the cooperation of different voltage levels. Adam Tech's offering is equipped to accommodate these various applications, thanks to its support of a wide range of watts, voltages, and currents. In addition, Adam Tech possesses the ability to manufacture custom converters to meet every customer's needs.




## FEATURES & SPECIFICATIONS

### FEATURES:

Efficiently convert DC voltage levels
Single and dual output
Power ranging from 1 to 30 W
Input voltages ranging from 2.97 to 75 VDC
Output voltages ranging from 3.3 to 24 VDC
Input currents ranging from 7 to 10 mA no-load, and 255 to 1420 mA full-load
Output currents ranging from 21 to 6500 mA
Various packaging options
Burned-in
Low ripple and noise

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. QQJQ2-E538449 and QQGQ2-E538449

| PART NUMBER | WATTS | INPUT VOLTAGE RANGE (VDC) | OUTPUT VOLTAGE (VDC) | OUTPUT CURRENT (MA) | PRODUCT DATA |
|---|---|---|---|---|---|
| E1B2-12D035152 | 2 | 12 | -3.5~15 | ±111 | View |
| E1B2-12D18032 | 2 | 12 | 18 | ±100 | View |
| E1B2-15D15052 | 2 | 15 | 15 | 100 | View |
| E2-05S053 | 3 | 5 | 5 | 600 | View |
| EC2-05D052P3 | 2 | 4.5~5.5 | ±5 | ±200 | View |
| EC2-05D12P3 | 1 | 4.5~5.5 | ±12 | ±42 | View |
| EC2-05D151PH3 | 1 | 5 | ±15 | ±34 | View |
| EC2-05S03P3 | 1 | 4.5~5.5 | 3.3 | 303 | View |
| EC2-05S052P3 | 2 | 4.5~5.5 | 5 | 400 | View |
| EC2-05S05P3 | 1 | 4.5~5.5 | 5 | 200 | View |
| EC2-05S05RP3 | 1 | 4.75~5.25 | 5 | 200 | View |
| EC2-12D24P3 | 1 | 9.6~14.4 | ±24 | ±21 | View |
| EC2-12S053P3 | 3 | 10.8~13.2 | 5 | 600 | View |
| EC2-12S05P3 | 1 | 9.6~14.4 | 5 | 200 | View |
| EC2-12S123P | 3 | 10.8~13.2 | 12 | 250 | View |
| EC2-15S15P3 | 1 | 12~18 | 15 | 67 | View |
| EC2-24D12P3 | 1 | 19.2~28.8 | ±12 | ±42 | View |
| EC2-24S03P3 | 1 | 24 | 3.3 | 303 | View |
| EC2-24S05P3 | 1 | 24 | 5 | 200 | View |
| EC2-24S12P3 | 1 | 24 | 12 | 84 | View |
| EC2-24S152P6 | 2 | 19.2~28.8 | 15 | 133 | View |
| EC2-24S15P3 | 1 | 19.2~28.8 | 15 | 67 | View |
| EC21-15D1504F2H5C | 2.2 | 15 | 14.33 | ±120 | View |
| EC2M-05D1542 | 1 | 5 | ±15 | ±34 | View |
| EC3-24S03P3 | 1 | 19.2~28.8 | 3.3 | 303 | View |
| EC3R-05S05P3 | 1 | 4.5~5.5 | 5 | 200 | View |

| PART NUMBER | WATTS | INPUT VOLTAGE RANGE (VDC) | OUTPUT VOLTAGE (VDC) | OUTPUT CURRENT (MA) | PRODUCT DATA |
|---|---|---|---|---|---|
| EC3R-24S24P2 | 1 | 24 | 24 | 84 | View |
| EC3T-03S053P | 1 | 3.3 | 5 | 200 | View |
| EC3T-05S03P | 1 | 4.5~5.5 | 3.3 | 303 | View |
| EC3T-05S05 | 1 | 4.5~5.5 | 5 | 200 | View |
| EC3T-05S05P | 1 | 4.5~5.5 | 5 | 200 | View |
| EC3T-05S05P025 | 0.25 | 5 | 5 | 50 | View |
| EC3T-05S05P3 | 1 | 4.5~5.5 | 5 | 200 | View |
| EC3T-05S092P | 1 | 5 | 9 | 112 | View |
| EC3T-05S09P | 1 | 4.5~5.5 | 9 | 112 | View |
| EC3T-05S12P | 1 | 4.5~5.5 | 12 | 84 | View |
| EC3T-12S05P | 1 | 9.6~14.4 | 5 | 200 | View |
| EC3T-12S122P | 2 | 10.8~13.2 | 12 | 167 | View |
| EC3T-12S12P | 1 | 9.6~14.4 | 12 | 84 | View |
| EC3T-12S12P3 | 1 | 9.6~14.4 | 12 | 84 | View |
| EC3T-24S12P | 1 | 19.2~28.8 | 12 | 84 | View |
| EC3T-24S242P | 2 | 21.6~26.4 | 24 | 84 | View |
| EC4-05D12P | 1 | 5 | ±12 | ±42 | View |
| EC4-05D15P | 1 | 5 | ±15 | ±34 | View |
| EC4-05S03RP | 1 | 4.75~5.25 | 3.3 | 250 | View |
| EC4-05S05 | 1 | 4.5~5.5 | 5 | 200 | View |
| EC4-05S05P | 1 | 5 | 5 | 200 | View |
| EC4-05S05RP | 1 | 4.75~5.25 | 5 | 200 | View |
| EC4-12D05P | 1 | 9.6~14.4 | ±5 | ±100 | View |
| EC4-12S05P | 1 | 9.6~14.4 | 5 | 200 | View |
| EC4-12S12P | 1 | 9.6~14.4 | 12 | 84 | View |
| EC4-12S15P2 | 2 | 12 | 15 | 133 | View |

# DC-DC Converters

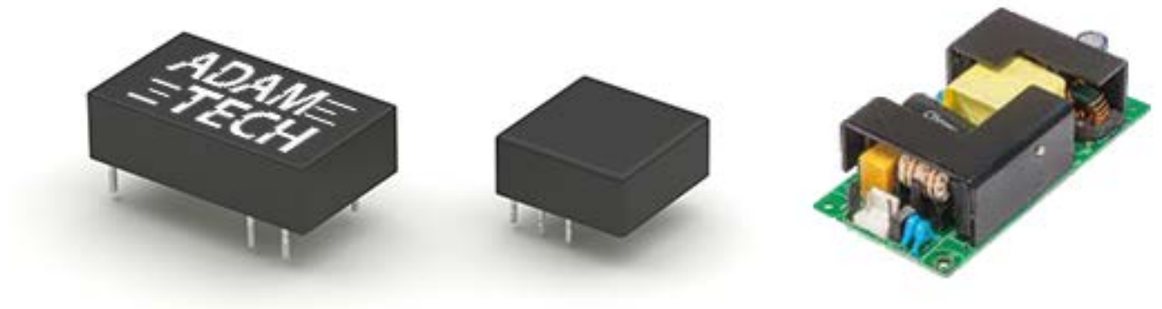
| PART NUMBER | WATTS | INPUT VOLTAGE RANGE (VDC) | OUTPUT VOLTAGE (VDC) | OUTPUT CURRENT (MA) | PRODUCT DATA |
|---|---|---|---|---|---|
| EC4-15D12P | 1 | 12~18 | ±12 | ±42 | View |
| EC4-24D103P | 3 | 21.6~26.4 | ±10 | ±150 | View |
| EC4-24D122P | 2 | 24 | ±12 | ±84 | View |
| EC4-24D12P | 1 | 24 | ±12 | ±42 | View |
| EC4-24D152P | 2 | 21.6~26.4 | ±15 | ±67 | View |
| EC4-24D153P | 3 | 21.6~26.4 | ±15 | ±100 | View |
| EKS-24S05R3-NRTP | 15 | 18~36 | 5 | 3000 | View |
| EKSW-24S12R3 | 15 | 24 | 12 | 1250 | View |
| EKT20-24S12R3 | 20 | 9~36 | 12 | 1670 | View |
| ES3-05D09P15 | 1 | 5 | ±9 | 56 | View |
| ES3-05S05I2P | 1 | 5 | 5 | 200 | View |
| ES3-05S052P3 | 2 | 4.5~5.5 | 5 | 400 | View |
| ES3-05S05P | 1 | 5 | 5 | 200 | View |
| ES3-05S05P15 | 1 | 5 | 5 | 200 | View |
| ES3-05S05P3 | 1 | 4.5~5.5 | 5 | 200 | View |
| ES3-05S12P15-0.75 | 0.75 | 5 | 12 | 63 | View |
| ES3-12S05P | 1 | 12 | 5 | 200 | View |
| ES3-12S05P15 | 1 | 12 | 5 | 200 | View |
| ES3-12S12P15 | 2 | 12 | 12 | 167 | View |
| ES3-24D05P15 | 1 | 24 | 5 | ±100 | View |
| ES3-24S05P3 | 1 | 24 | 5 | ±200 | View |
| ES3-24S242P | 2 | 24 | 24 | 84 | View |
| ES31-05D15P15 | 1 | 5 | ±15 | ±34 | View |
| ES31-05S15P3 | 1 | 5 | 15 | 67 | View |
| ES3R-03S05P3 | 1 | 2.97~3.63 | 5 | 200 | View |
| ES3R-05S05P3 | 1 | 4.5~5.5 | 5 | 200 | View |
| ES3R-05S05R3 | 1 | 4.5~5.5 | 5 | 200 | View |
| ES3R-24S09P3 | 1 | 19.2~28.8 | 9 | 112 | View |
| KH75-24S033 | 75 | 9~36 | 3.3 | 18000 | View |
| KH75-24S05 | 75 | 9~36 | 5 | 15000 | View |
| KR15-24S12 | 15 | 9~36 | 12 | 1250 | View |
| KR15-24S24 | 15 | 9~36 | 24 | 625 | View |
| KW60-24S05 | 60 | 9~36 | 5 | 12000 | View |
| KW60-24S12 | 60 | 9~36 | 12 | 5000 | View |
| KW60-24S15 | 60 | 9~36 | 15 | 4000 | View |
| KW60-24S24 | 60 | 9~36 | 24 | 2500 | View |
| KW60-48S05 | 60 | 18~75 | 5 | 12000 | View |
| KW60-48S12 | 60 | 18~75 | 12 | 5000 | View |
| KW60-48S15 | 60 | 18~75 | 15 | 4000 | View |
| KW60-48S24 | 60 | 18~75 | 24 | 2500 | View |
| NL1-05-1A | N/A | 6.5~36 | 5 | 1000 | View |
| NL1-05-2A | N/A | 6.5~36 | 5 | 2000 | View |
| NL1-05-2AR | 3 | 4.75~36 | 5 | 2000 | View |

| PART NUMBER | WATTS | INPUT VOLTAGE RANGE (VDC) | OUTPUT VOLTAGE (VDC) | OUTPUT CURRENT (MA) | PRODUCT DATA |
|---|---|---|---|---|---|
| NL1-05-P5 | N/A | 6.5~34 | 5 | 500 | View |
| NL1-09-1A | N/A | 12~36 | 9 | 1000 | View |
| NL1-12-1A | N/A | 15~36 | 12 | 1000 | View |
| NL1-15-1A | N/A | 18~36 | 15 | 1000 | View |
| NL1-3P3-1A | N/A | 4.75~36 | 3.3 | 1000 | View |
| NL1-3P3-P5 | N/A | 4.75~34 | 3.3 | 500 | View |
| NL1-3R3-1A | | 4.75~36 | 3.3 | 1000 | View |
| NL1-3R3-500 | N/A | 4.75~36 | 3.3 | 500 | View |
| NL1-6P5-1A | N/A | 9~36 | 6.5 | 1000 | View |
| NL1C-05-500 | N/A | 6.5~36 | 5 | 500 | View |
| NL1C-12-500 | N/A | 15~36 | 12 | 500 | View |
| NL1C-3R3-500 | N/A | 4.75~36 | 3.3 | 500 | View |
| NL1DS-05-500 | N/A | 6.5~36 | 5 | 500 | View |
| RD16-12S05R | 1 | 9~18 | 5 | 200 | View |
| RD7-05D053R | 3 | 4.5~9 | ±5 | ±300 | View |
| RD7-05S033R3 | 3 | 4.5~9 | ±3.3 | 700 | View |
| RD7-05S053R3 | 3 | 4.5~9 | ±5 | 600 | View |
| RD7-05S05R | 2 | 5~9 | 5 | 400 | View |
| RD7-05S05R3 | 2 | 5~9 | 5 | 400 | View |
| RD7-05S123 | 3 | 5 | 12 | 250 | View |
| RD7-12D126R | 6 | 9~18 | ±12 | ±250 | View |
| RD7-12D12R | 2 | 9~18 | ±12 | ±84 | View |
| RD7-12D153R3 | 3 | 9~18 | ±15 | ±100 | View |
| RD7-12S033R | 3 | 9~18 | 3.3 | 909 | View |
| RD7-12S053R3 | 3 | 9~18 | 5 | 600 | View |
| RD7-12S09R | 2 | 9~18 | 9 | 222 | View |
| RD7-12S123R | 3 | 9~18 | 12 | 250 | View |
| RD7-24D053R | 3 | 18~36 | ±5 | ±300 | View |
| RD7-24D103R | 3 | 18~36 | ±10 | ±150 | View |
| RD7-24D123R3 | 3 | 18~36 | ±12 | ±125 | View |
| RD7-24D12R | 2 | 18~36 | ±12 | ±84 | View |
| RD7-24D153R3 | 3 | 18~36 | ±15 | ±100 | View |
| RD7-24D156R | 6 | 18~36 | ±15 | ±200 | View |
| RD7-24S033R | 3 | 18~36 | 3.3 | 700 | View |
| RD7-24S036R | 6 | 18~36 | 3.3 | 1500 | View |
| RD7-24S03R3 | 2 | 18~36 | ±3.3 | 500 | View |
| RD7-24S053R | 3 | 18~36 | 5 | 600 | View |
| RD7-24S053R3 | 3 | 18~36 | 5 | 600 | View |
| RD7-24S056R | 6 | 18~36 | 5 | 1200 | View |
| RD7-24S05R3 | 2 | 18~36 | 5 | 400 | View |
| RD7-24S123R | 3 | 18~36 | 12 | 250 | View |
| RD7-24S126R | 6 | 18~36 | 12 | 500 | View |
| RD7-24S12R | 2 | 18~36 | 12 | 167 | View |

| PART NUMBER | WATTS | INPUT VOLTAGE RANGE (VDC) | OUTPUT VOLTAGE (VDC) | OUTPUT CURRENT (MA) | PRODUCT DATA |
|---|---|---|---|---|---|
| RD7-24S153R | 3 | 18~36 | 15 | 200 | View |
| RD7-24S156R | 6 | 18~36 | 15 | 400 | View |
| RD7-24S246R | 6 | 18~36 | 24 | 250 | View |
| RD7-48S053R3 | 3 | 36~72 | 5 | 600 | View |
| RD72-24S05R | 2 | 18~36 | ±5 | 400 | View |
| RD7D-24D15R3 | 2 | 18~36 | ±15 | ±66 | View |
| RD7DC-24D15R6 | 6 | 9~36 | ±15 | ±200 | View |
| RD7DC-24S056 | 6 | 24 | 5 | 1200 | View |
| RD7DC-24S096 | 6 | 24 | 9 | 667 | View |
| RD7DC-24S15R6 | 6 | 9~36 | 15 | 400 | View |
| RD7W-48S053R | 3 | 18~75 | 5 | 600 | View |
| RQ615S-12S05R | 15 | 9~18 | 5 | 3000 | View |
| RQ6DC-24S05R6 | 6 | 24 | 5 | 1200 | View |
| RQ6DC-24S05R6H | 6 | 9~36 | 5 | 1200 | View |
| RQ6DC-24S12R6 | 6 | 9~36 | 12 | 500 | View |
| RQ6DC-24S15R6H | 6 | 9~36 | 15 | 400 | View |
| RQ6DC-24S24R6 | 6 | 9~36 | 24 | 250 | View |
| RQ6DW-24S09R6-10 | 10 | 24 | 9 | 1111 | View |
| RQ6W15S-24S12R | 15 | 9~36 | 12 | 1250 | View |
| RQ6W20-24S12R | 20 | 9~36 | 12 | 1670 | View |
| RQ9P-24D12R | 30 | 9~36 | ±12 | ±1250 | View |
| RQ9P-48D12R | 30 | 18~75 | ±12 | ±1250 | View |
| RQ9S-24D15R | 30 | 9~36 | ±15 | ±1000 | View |
| RQ9S-24S05R | 30 | 9~36 | 5 | 6000 | View |
| RQ9S-24S12R | 30 | 9~36 | 12 | 2500 | View |
| RQ9S-24S24R | 30 | 9~36 | 24 | 1250 | View |
| RQ9S-48S04R | 30 | 18~75 | 4.2 | 6500 | View |
| RQ9S-48S05R | 30 | 18~75 | 5 | 6000 | View |
| UC10-24D15 | 10 | 9~36 | ±15 | ±333 | View |
| UC10-24S12 | 10 | 9~36 | 12 | 833 | View |
| UC10-24S24 | 10 | 9~36 | 24 | 416 | View |
| UC15-24D15 | 15 | 9~36 | ±15 | ±500 | View |
| UC15-24S12 | 15 | 9~36 | 12 | 1250 | View |
| UC15-24S24 | 15 | 9~36 | 24 | 625 | View |
| UWC30-36S12 | 30 | 36 | ±12 | ±2500 | View |

# AC-DC Converters

Adam Tech is equipped with an extensive offering of AC-DC Converters. These devices are designed to efficiently convert alternating current (AC) into direct current (DC). This makes them ideal for applications that utilize DC power. Adam Tech's offering is equipped to accommodate these various applications, thanks to its support of a wide range of watts, voltages, and currents. In addition, Adam Tech possesses the ability to manufacture custom converters to meet every customer's needs.



## FEATURES & SPECIFICATIONS

### FEATURES:

Efficiently convert AC into DC
Single and dual output
Power ranging from 2.64 to 60W
Output voltages ranging from 3.3 to 48VDC
Output currents ranging from 104 to 8000mA
Short circuit/overload protection

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. QQGQ2-E538449

| PART NUMBER | WATTS | OUTPUT VOLTAGE (V) | OUTPUT CURRENT MAX (MA) | PRODUCT DATA |
|---|---|---|---|---|
| AC003-S03 | 2.64 | 3.3 | 800 | View |
| AC003-S05 | 3 | 5 | 600 | View |
| AC003-S06 | 3 | 6 | 500 | View |
| AC003-S09 | 3 | 9 | 333 | View |
| AC003-S12 | 3 | 12 | 250 | View |
| AC003-S24 | 3 | 24 | 125 | View |
| AC003-S27 | 3 | 27 | 110 | View |
| AC005-S03 | 4 | 3.3 | 1200 | View |
| AC005-S05 | 5 | 5 | 1000 | View |
| AC005-S06 | 5.1 | 6 | 850 | View |
| AC005-S09 | 5.4 | 9 | 600 | View |
| AC005-S12 | 6 | 12 | 500 | View |
| AC005-S15 | 6 | 15 | 400 | View |
| AC005-S24 | 6 | 24 | 250 | View |
| AC010-D05 | 10 | ±5 | ±1000 | View |
| AC010-D12 | 12 | ±12 | ±500 | View |
| AC010-D15 | 12 | ±15 | ±400 | View |
| AC010-D24 | 12 | ±24 | ±250 | View |
| AC010-S03 | 10 | 3.3 | 3000 | View |
| AC010-S05 | 10 | 5 | 2000 | View |
| AC010-S12 | 12 | 12 | 1000 | View |
| AC010-S15 | 12 | 15 | 800 | View |
| AC010-S24 | 12 | 24 | 500 | View |
| AC025-D05 | 25 | ±5 | ±2500 | View |
| AC025-D15 | 24 | ±15 | ±800 | View |
| AC025-D24 | 24 | ±24 | ±500 | View |
| AC025-D28-28 | 28 | ±28 | ±500 | View |
| AC025-D28B-28 | 28 | ±28 | ±500 | View |

| PART NUMBER | WATTS | OUTPUT VOLTAGE (V) | OUTPUT CURRENT MAX (MA) | PRODUCT DATA |
|---|---|---|---|---|
| AC025-S03 | 16.5 | 3.3 | 5000 | View |
| AC025-S05 | 20 | 5 | 4000 | View |
| AC025-S06 | 24 | 6 | 4000 | View |
| AC025-S09 | 22.5 | 9 | 2500 | View |
| AC025-S12 | 25 | 12 | 2100 | View |
| AC025-S15 | 26 | 15 | 1750 | View |
| AC025-S16 | 26 | 16 | 1625 | View |
| AC025-S18 | 26 | 18 | 1450 | View |
| AC025-S24 | 26.4 | 24 | 1100 | View |
| AC025-S27 | 27 | 27 | 1000 | View |
| AC025-S36 | 27 | 36 | 750 | View |
| AC025-S48 | 27 | 48 | 560 | View |
| AC030-D12 | 42 | ±12 | ±1750 | View |
| AC030-S05 | 40 | 5 | 8000 | View |
| AC030-S12 | 42 | 12 | 3500 | View |
| AC030-S24 | 42 | 24 | 1750 | View |
| AC030-S48 | 48 | 48 | 1000 | View |
| AC10D-S03 | 6.6 | 3.3 | 2000 | View |
| AC10D-S05 | 10 | 5 | 2000 | View |
| AC10D-S12 | 12 | 12 | 1000 | View |
| AC10D-S15 | 12 | 15 | 800 | View |
| AC10D-S24 | 12 | 24 | 500 | View |
| AC10G-S09-A | 10 | ±9 | 111 | View |
| AC10G-S12-A | 10.2 | ±12 | 850 | View |
| AC15D-S09B | 15 | ±9 | 1670 | View |
| AC20D-S05B | 20 | ±5 | 4000 | View |
| AC20D-S24B | 20 | ±24 | 840 | View |
| AC25D-S24 | 26.4 | ±24 | 1100 | View |

| PART NUMBER | WATTS | OUTPUT VOLTAGE (V) | OUTPUT CURRENT MAX (MA) | PRODUCT DATA |
|---|---|---|---|---|
| AC5A-S03 | 3.3 | 3.3 | 1000 | View |
| AC5A-S05 | 5 | 5 | 1000 | View |
| AC5A-S06 | 5 | 6 | 830 | View |
| AC5A-S12 | 6 | 12 | 500 | View |
| AC5A-S14 | 6 | 14 | 430 | View |
| AC5A-S18 | 6 | 18 | 335 | View |
| AC5A-S24 | 6 | 24 | 250 | View |
| AC5A-S48 | 6 | 48 | 125 | View |
| AC5E-S03 | 5 | 3.3 | 1515 | View |
| AC5E-S04 | 5 | 4 | 1250 | View |
| AC5E-S05 | 5 | 5 | 1000 | View |
| AC5E-S09 | 5 | 9 | 555 | View |
| AC5E-S12 | 5 | 12 | 416 | View |
| AC5E-S12-3-P3R | 3 | ±12 | 250 | View |
| AC5E-S12-P3R | 5 | ±12 | 416 | View |
| AC5E-S15 | 5 | 15 | 333 | View |
| AC5E-S24 | 5 | 24 | 208 | View |
| AC5E-S48 | 5 | 48 | 104 | View |
| AC5F-S12-5 | 5 | ±12 | 420 | View |
| AD003-S03 | 2.64 | 3.3 | 800 | View |
| AD003-S05 | 3 | 5 | 600 | View |
| AD003-S12 | 3 | 12 | 250 | View |
| AD005-S05 | 5 | 5 | 1000 | View |
| AD005-S12 | 6 | 12 | 500 | View |
| AD005-S24 | 6 | 24 | 250 | View |
| AD40A-S24 | 40 | ±24 | 1670 | View |
| AD60A-S12 | 60 | 12 | 5000 | View |
| AD60A-S24 | 60 | 24 | 2500 | View |

# Energy Storage Connectors
ESF & ESM SERIES

Adam Tech's ESF/ESM Series Energy Storage Connectors provide a critical link between battery modules. This link ensures safe and reliable connections in energy storage systems, such as electric vehicle charging, renewable energy devices, and both industrial and consumer energy storage. The series is composed of various mated pairs, offered in both orange and black. Various voltage ratings, current ratings, and wire gauges are supported, making this series compatible with a wide range of applications. Compatible dust covers are available, providing additional protection.





## FEATURES & SPECIFICATIONS

### FEATURES:
Providing reliable and efficient energy transfers
Broad current range of 90A to 350A
Voltage range of 1000VDC to 1500VDC
Various wire gauge options
Termination options: crimp, threaded hole, screw post, and busbar
Orange and black housing
Mated pairs
IP67 waterproof when mated
UL 94V-0 flammability protection
PA66 materials
RoHS & REACH compliant
UL recognized
Compatible dust covers

### SPECIFICATIONS:

### Material:
Insulator, cap, and top: PA66, Glass reinforced, rated UL94V-0
Gasket/waterproof ring: Silicone
Contact: Pure red copper, silver plated surface
Spring: SUS301

### Electrical:
Voltage rating: 1000/1500VDC
Current rating: 90A, 120A, 200A, 250A, 300A, and 350A
Contact resistance: 0.5 mohms max
Insulation resistance: 1000 Mohms min.
Dielectric withstanding voltage: 3800/6800VDC

### Mechanical:
Durability: 500 cycles
Overvoltage category/pollution degree: CATIII/3

### Temperature Rating:
Operating temperature range: -40°C to +125°C

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. BBTH2-E537617

## ESF PART NUMBER CONFIGURATION

| ESF | - | 200 | A02 | - | AA | B | 040 |
|---|---|---|---|---|---|---|---|
| SERIES | | CURRENT RATING | VERSION | | KEY OPTIONS | HOUSING COLOR | TERMINAL TYPE |
| **ESF** = *Female Energy Storage Connector* | | **090** = *90 amps*<br>**120** = *120 amps*<br>**200** = *200 amps*<br>**250** = *250 amps*<br>**300** = *300 amps*<br>**350** = *350 amps* | **A02** | | **AA** = *+85°*<br>**AD** = *-65°* | **O** = *Orange*<br>**B** = *Black* | **010** = *Threaded Hole*<br>**020** = *Busbar (Threaded Hole)*<br>**030** = *Screw Post*<br>**040** = *Busbar (Through Hole)*<br>**051** *or* **052** = *Crimp* |

## ESM PART NUMBER CONFIGURATION

| ESM | - | 200 | A02 | - | AA | B |
|---|---|---|---|---|---|---|
| SERIES | | CURRENT RATING | VERSION | | KEY OPTIONS | HOUSING COLOR |
| **ESM** = *Male Energy Storage Connector* | | **090** = *90 amps*<br>**120** = *120 amps*<br>**200** = *200 amps*<br>**250** = *250 amps*<br>**300** = *300 amps*<br>**350** = *350 amps* | **A01** = *Straight*<br>**A02** = *Right Angle* | | **AA** = *-85°*<br>**AD** = *+65°* | **O** = *Orange*<br>**B** = *Black* |

# Energy Storage Connectors

| PART NUMBER | PRODUCT TYPE | ORIENTATION | CURRENT RATING | VOLTAGE RATING | CABLE GAUGE | COMPATIBLE DUST COVER | COLOR | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|
| ESF-090A02-AAB020 | Energy Connector (Female) | Straight | 90A | 1000V | 6AWG (16mm²) | ESF-DC1 | Black | View |
| ESF-090A02-AAB040 | Energy Connector (Female) | Straight | 90A | 1000V | 6AWG (16mm²) | ESF-DC1 | Black | View |
| ESF-090A02-AAO020 | Energy Connector (Female) | Straight | 90A | 1000V | 6AWG (16mm²) | ESF-DC1 | Orange | View |
| ESF-090A02-AAO040 | Energy Connector (Female) | Straight | 90A | 1000V | 6AWG (16mm²) | ESF-DC1 | Orange | View |
| ESF-090A02-ADB020 | Energy Connector (Female) | Straight | 90A | 1000V | 6AWG (16mm²) | ESF-DC1 | Black | View |
| ESF-090A02-ADB040 | Energy Connector (Female) | Straight | 90A | 1000V | 6AWG (16mm²) | ESF-DC1 | Black | View |
| ESF-090A02-ADO020 | Energy Connector (Female) | Straight | 90A | 1000V | 6AWG (16mm²) | ESF-DC1 | Orange | View |
| ESF-090A02-ADO040 | Energy Connector (Female) | Straight | 90A | 1000V | 6AWG (16mm²) | ESF-DC1 | Orange | View |
| ESF-120A02-AAB020 | Energy Connector (Female) | Straight | 120A | 1000V | 4AWG (25mm²) | ESF-DC1 | Black | View |
| ESF-120A02-AAB040 | Energy Connector (Female) | Straight | 120A | 1000V | 4AWG (25mm²) | ESF-DC1 | Black | View |
| ESF-120A02-AAO020 | Energy Connector (Female) | Straight | 120A | 1000V | 4AWG (25mm²) | ESF-DC1 | Orange | View |
| ESF-120A02-AAO040 | Energy Connector (Female) | Straight | 120A | 1000V | 4AWG (25mm²) | ESF-DC1 | Orange | View |
| ESF-120A02-ADB020 | Energy Connector (Female) | Straight | 120A | 1000V | 4AWG (25mm²) | ESF-DC1 | Black | View |
| ESF-120A02-ADB040 | Energy Connector (Female) | Straight | 120A | 1000V | 4AWG (25mm²) | ESF-DC1 | Black | View |
| ESF-120A02-ADO020 | Energy Connector (Female) | Straight | 120A | 1000V | 4AWG (25mm²) | ESF-DC1 | Orange | View |
| ESF-120A02-ADO040 | Energy Connector (Female) | Straight | 120A | 1000V | 4AWG (25mm²) | ESF-DC1 | Orange | View |
| ESF-200A02-AAB020 | Energy Connector (Female) | Straight | 200A | 1500V | 1/0AWG (50mm²) | ESF-DC2 | Black | View |
| ESF-200A02-AAB040 | Energy Connector (Female) | Straight | 200A | 1500V | 1/0AWG (50mm²) | ESF-DC2 | Black | View |
| ESF-200A02-AAO020 | Energy Connector (Female) | Straight | 200A | 1500V | 1/0AWG (50mm²) | ESF-DC2 | Orange | View |
| ESF-200A02-AAO040 | Energy Connector (Female) | Straight | 200A | 1500V | 1/0AWG (50mm²) | ESF-DC2 | Orange | View |
| ESF-200A02-ADB020 | Energy Connector (Female) | Straight | 200A | 1500V | 1/0AWG (50mm²) | ESF-DC2 | Black | View |
| ESF-200A02-ADB040 | Energy Connector (Female) | Straight | 200A | 1500V | 1/0AWG (50mm²) | ESF-DC2 | Black | View |
| ESF-200A02-ADO020 | Energy Connector (Female) | Straight | 200A | 1500V | 1/0AWG (50mm²) | ESF-DC2 | Orange | View |
| ESF-200A02-ADO040 | Energy Connector (Female) | Straight | 200A | 1500V | 1/0AWG (50mm²) | ESF-DC2 | Orange | View |
| ESF-250A02-AAB020 | Energy Connector (Female) | Straight | 250A | 1500V | 2/0AWG (70mm²) | ESF-DC2 | Black | View |
| ESF-250A02-AAB040 | Energy Connector (Female) | Straight | 250A | 1500V | 2/0AWG (70mm²) | ESF-DC2 | Black | View |
| ESF-250A02-AAO020 | Energy Connector (Female) | Straight | 250A | 1500V | 2/0AWG (70mm²) | ESF-DC2 | Orange | View |
| ESF-250A02-AAO040 | Energy Connector (Female) | Straight | 250A | 1500V | 2/0AWG (70mm²) | ESF-DC2 | Orange | View |
| ESF-250A02-ADB020 | Energy Connector (Female) | Straight | 250A | 1500V | 2/0AWG (70mm²) | ESF-DC2 | Black | View |
| ESF-250A02-ADB040 | Energy Connector (Female) | Straight | 250A | 1500V | 2/0AWG (70mm²) | ESF-DC2 | Black | View |
| ESF-250A02-ADO020 | Energy Connector (Female) | Straight | 250A | 1500V | 2/0AWG (70mm²) | ESF-DC2 | Orange | View |
| ESF-250A02-ADO040 | Energy Connector (Female) | Straight | 250A | 1500V | 2/0AWG (70mm²) | ESF-DC2 | Orange | View |
| ESF-300A02-AAB020 | Energy Connector (Female) | Straight | 300A | 1500V | 95mm² | ESF-DC3 | Black | View |
| ESF-300A02-AAB040 | Energy Connector (Female) | Straight | 300A | 1500V | 95mm² | ESF-DC3 | Black | View |
| ESF-300A02-AAO020 | Energy Connector (Female) | Straight | 300A | 1500V | 95mm² | ESF-DC3 | Orange | View |
| ESF-300A02-AAO040 | Energy Connector (Female) | Straight | 300A | 1500V | 95mm² | ESF-DC3 | Orange | View |
| ESF-300A02-ADB020 | Energy Connector (Female) | Straight | 300A | 1500V | 95mm² | ESF-DC3 | Black | View |
| ESF-300A02-ADB040 | Energy Connector (Female) | Straight | 300A | 1500V | 95mm² | ESF-DC3 | Black | View |
| ESF-300A02-ADO020 | Energy Connector (Female) | Straight | 300A | 1500V | 95mm² | ESF-DC3 | Orange | View |
| ESF-300A02-ADO040 | Energy Connector (Female) | Straight | 300A | 1500V | 95mm² | ESF-DC3 | Orange | View |
| ESF-350A02-AAB020 | Energy Connector (Female) | Straight | 350A | 1500V | 4/0AWG | ESF-DC3 | Black | View |
| ESF-350A02-AAB040 | Energy Connector (Female) | Straight | 350A | 1500V | 4/0AWG | ESF-DC3 | Black | View |
| ESF-350A02-AAO020 | Energy Connector (Female) | Straight | 350A | 1500V | 4/0AWG | ESF-DC3 | Orange | View |
| ESF-350A02-AAO040 | Energy Connector (Female) | Straight | 350A | 1500V | 4/0AWG | ESF-DC3 | Orange | View |
| ESF-350A02-ADB020 | Energy Connector (Female) | Straight | 350A | 1500V | 4/0AWG | ESF-DC3 | Black | View |
| ESF-350A02-ADB040 | Energy Connector (Female) | Straight | 350A | 1500V | 4/0AWG | ESF-DC3 | Black | View |
| ESF-350A02-ADO020 | Energy Connector (Female) | Straight | 350A | 1500V | 4/0AWG | ESF-DC3 | Orange | View |
| ESF-350A02-ADO040 | Energy Connector (Female) | Straight | 350A | 1500V | 4/0AWG | ESF-DC3 | Orange | View |
| ESF-DC1 | Dust Cover | N/A | N/A | N/A | N/A | N/A | N/A | View |
| ESF-DC2 | Dust Cover | N/A | N/A | N/A | N/A | N/A | N/A | View |
| ESF-DC3 | Dust Cover | N/A | N/A | N/A | N/A | N/A | N/A | View |
| ESF-XXXA02-XXXXXX | Energy Connector (Female) | Straight | N/A | N/A | N/A | N/A | N/A | View |
| ESM-090A02-AAB | Energy Connector (Male) | Right Angle | 90A | 1000V | 6AWG (16mm²) | N/A | Black | View |
| ESM-090A02-AAO | Energy Connector (Male) | Right Angle | 90A | 1000V | 6AWG (16mm²) | N/A | Orange | View |
| ESM-090A02-ADB | Energy Connector (Male) | Right Angle | 90A | 1000V | 6AWG (16mm²) | N/A | Black | View |
| ESM-090A02-ADO | Energy Connector (Male) | Right Angle | 90A | 1000V | 6AWG (16mm²) | N/A | Orange | View |
| ESM-120A02-AAB | Energy Connector (Male) | Right Angle | 120A | 1000V | 4AWG (25mm²) | N/A | Black | View |
| ESM-120A02-AAO | Energy Connector (Male) | Right Angle | 120A | 1000V | 4AWG (25mm²) | N/A | Orange | View |
| ESM-120A02-ADB | Energy Connector (Male) | Right Angle | 120A | 1000V | 4AWG (25mm²) | N/A | Black | View |
| ESM-120A02-ADO | Energy Connector (Male) | Right Angle | 120A | 1000V | 4AWG (25mm²) | N/A | Orange | View |
| ESM-200A01-AAO | Energy Connector (Male) | Straight | 200A | 1500V | 1/0AWG (50mm²) | N/A | Orange | View |
| ESM-200A01-ADB | Energy Connector (Male) | Straight | 200A | 1500V | 1/0AWG (50mm²) | N/A | Black | View |
| ESM-200A02-AAB | Energy Connector (Male) | Right Angle | 200A | 1500V | 1/0AWG (50mm²) | N/A | Black | View |
| ESM-200A02-AAO | Energy Connector (Male) | Right Angle | 200A | 1500V | 1/0AWG (50mm²) | N/A | Orange | View |
| ESM-200A02-ADB | Energy Connector (Male) | Right Angle | 200A | 1500V | 1/0AWG (50mm²) | N/A | Black | View |
| ESM-200A02-ADO | Energy Connector (Male) | Right Angle | 200A | 1500V | 1/0AWG (50mm²) | N/A | Orange | View |
| ESM-250A01-AAO | Energy Connector (Male) | Straight | 250A | 1500V | 2/0AWG (70mm²) | N/A | Orange | View |
| ESM-250A01-ADB | Energy Connector (Male) | Straight | 250A | 1500V | 2/0AWG (70mm²) | N/A | Black | View |
| ESM-250A02-AAB | Energy Connector (Male) | Right Angle | 250A | 1500V | 2/0AWG (70mm²) | N/A | Black | View |
| ESM-250A02-AAO | Energy Connector (Male) | Right Angle | 250A | 1500V | 2/0AWG (70mm²) | N/A | Orange | View |
| ESM-250A02-ADB | Energy Connector (Male) | Right Angle | 250A | 1500V | 2/0AWG (70mm²) | N/A | Black | View |
| ESM-250A02-ADO | Energy Connector (Male) | Right Angle | 250A | 1500V | 2/0AWG (70mm²) | N/A | Orange | View |
| ESM-300A02-AAB | Energy Connector (Male) | Right Angle | 300A | 1500V | 95mm² | N/A | Black | View |
| ESM-300A02-AAO | Energy Connector (Male) | Right Angle | 300A | 1500V | 95mm² | N/A | Orange | View |
| ESM-300A02-ADB | Energy Connector (Male) | Right Angle | 300A | 1500V | 95mm² | N/A | Black | View |
| ESM-300A02-ADO | Energy Connector (Male) | Right Angle | 300A | 1500V | 95mm² | N/A | Orange | View |
| ESM-350A02-AAB | Energy Connector (Male) | Right Angle | 350A | 1500V | 4/0AWG | N/A | Black | View |
| ESM-350A02-AAO | Energy Connector (Male) | Right Angle | 350A | 1500V | 4/0AWG | N/A | Orange | View |
| ESM-350A02-ADB | Energy Connector (Male) | Right Angle | 350A | 1500V | 4/0AWG | N/A | Black | View |
| ESM-350A02-ADO | Energy Connector (Male) | Right Angle | 350A | 1500V | 4/0AWG | N/A | Orange | View |
| ESM-XXXA01-XXX | Energy Connector (Male) | Straight | N/A | N/A | N/A | N/A | N/A | View |
| ESM-XXXA02-XXX | Energy Connector (Male) | Right Angle | N/A | N/A | N/A | N/A | N/A | View |

# High Current Terminals

HCT SERIES

Adam Tech's High Current Terminals deliver dependable, high-current electrical connections between wires and PCBs, with versatile press-fit and through-hole mounting options to accommodate a wide range of power applications. Manufactured from C3604 brass and phosphor bronze, these rugged terminals feature matte tin and tin plating for excellent corrosion resistance and optimal conductivity. Engineered to support currents of up to 250A, they are ideal for use on thick, high-copper PCBs, offering gas-tight, mechanically secure connections without the need for thermal processing, eliminating concerns like cold solder joints while significantly enhancing long-term reliability. Their robust design enables double-sided PCB mounting and compact, high-density layouts, making them an excellent choice for demanding applications in industrial, automotive, and power electronics. Available in M3, M4, M5, and M6 screw sizes, these terminals offer the flexibility and strength needed for today's most power-intensive designs.



## FEATURES & SPECIFICATIONS

### FEATURES:

Available in M3, M4, M5, and M6 screw sizes
Internal and external thread options
Made from C3604 brass or phosphor bronze
Matte tin or tin-plated for corrosion resistance and conductivity
Rated for currents up to 250A
Tightening torque options: 0.5N 1.2N, 2.2N, or 3.9N
Insertion force: 40N per pin
Withdrawal force: 30N per pin

### SPECIFICATIONS:

### Material:

C3604 brass or phosphor bronze
Plating: Matte tin over nickel underplate overall

### Electrical:

Current Rating: 40A – 250A

### Mechanical:

Tightening Torque: 0.5N, 1.2N, 2.2N, or 3.9N
Insertion Force 40N per pin
Withdrawal Force: 30N per pin

### Environmental:

Lead free, RoHS compliant

### Temperature Rating:

Operating Temperature Range: -55°C to +150°C

## PART NUMBER CONFIGURATION

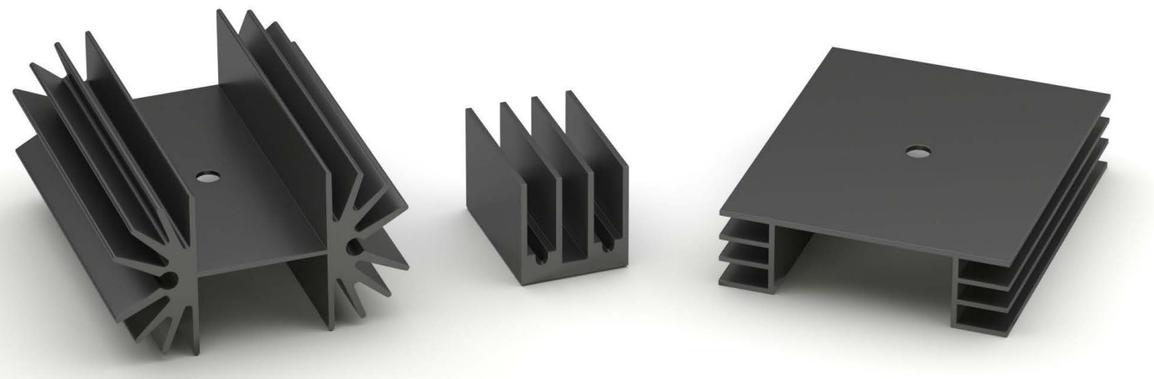
**HCT - T - IT - M3 - A - R**

| SERIES | BODY TYPE | PORTS | THREAD SIZE | SERIAL NUMBER | PACKAGING |
|---|---|---|---|---|---|
| **HCT** = *High Current Terminals* | **P** = *Press-fit*<br>**S** = *SMD (SMT)*<br>**T** = *THR (Through Hole)*<br>**M** = *Male Plug* | **IT** = *Internal Thread*<br>**ITC** = *Internal Thread Circumference*<br>**ITF** = *Internal Thread Full Plain*<br>**ET** = *External Thread* | **M3, M4, M5, M6** | | **R** = *Reel*<br>**Blank** = *Bag* |

| PART NUMBER | SCREW SIZE | THREAD | MATERIAL | PLATING | CURRENT (AMPS) | PRODUCT DATA |
|---|---|---|---|---|---|---|
| HCT-A-P06-IT-M4 | M4 | Internal | Phosphor Bronze | Tin | 40 | View |
| HCT-A-P10-IT-M4 | M4 | Internal | Phosphor Bronze | Tin | 50 | View |
| HCT-P-ET-M4-A | M4 | External | C3604 Brass | Matte Tin | 130 | View |
| HCT-P-ET-M5-A | M5 | External | C3604 Brass | Matte Tin | 180 | View |
| HCT-P-ET-M6-A | M6 | External | C3604 Brass | Matte Tin | 250 | View |
| HCT-P-IT-M5-A | M5 | Internal | C3604 Brass | Matte Tin | 180 | View |
| HCT-P-IT-M6-A | M6 | Internal | C3604 Brass | Matte Tin | 160 | View |
| HCT-P-ITC-M5-A | M5 | Internal | C3604 Brass | Matte Tin | 175 | View |
| HCT-P-ITF-M3-A | M3 | Internal | C3604 Brass | Matte Tin | 130 | View |
| HCT-P-ITF-M5-A | M5 | Internal | C3604 Brass | Matte Tin | 160 | View |
| HCT-S-IT-M5-A-R | M5 | Internal | C3604 Brass | Matte Tin | 70 | View |
| HCT-T-ET-M5-A-R | M5 | External | C3604 Brass | Matte Tin | 85 | View |
| HCT-T-IT-M3-A-R | M3 | Internal | C3604 Brass | Matte Tin | 50 | View |
| HCT-T-IT-M4-A-R | M4 | Internal | C3604 Brass | Matte Tin | 180 | View |

# Board Level Heat Sinks

Adam Tech's Board Level Heat Sinks ensure optimal device performance by efficiently dissipating heat generated by components on a device's PCB (printed circuit boards). Composed of aluminum, a highly thermally conductive material, they effectively transfer heat by radiating it into the air, cooling the device. Their large, finned surface area enhances airflow for natural convection heat dissipation, making them ideal for applications requiring temperature regulation. Their lightweight, compact design makes them perfect for applications with limited space, and suitable for common TO-220, TO-247 and SOT-32 component packages. With customizable options and easy installation methods, Adam Tech's board level heat sinks offer a cost-effective solution for improving thermal performance in various electronic devices.



## FEATURES & SPECIFICATIONS

### FEATURES:

Extruded and stamped types
Suitable For TO-220, TO-247, and SOT-32 packaged components
Vertical PCB mounting options: M2.5 screw, M3 screw, and solder pins
Mounts directly to component
Various sizes to meet cooling requirements
Maximizes heat transfer and enhances cooling efficiency
Easy installation

### SPECIFICATIONS:

**Material:**
Aluminum 6063

**Surface Finish:**
Black anodized

**Thermal Resistance:**
18-30° C/watt

| PART NUMBER | TYPE | COMPONENT PACKAGE | LENGTH | HEIGHT | WIDTH | PRODUCT DATA |
|---|---|---|---|---|---|---|
| HSK-043-01 | Extruded | TO-220 | 20mm | 17.5mm | 16mm | View |
| HSK-043-02 | Extruded | TO-220 | 25mm | 17.5mm | 16mm | View |
| HSK-043-03 | Extruded | TO-220 | 38mm | 17.5mm | 16mm | View |
| HSK-043-04 | Extruded | TO-220 | 50mm | 17.5mm | 16mm | View |
| HSK-044-01 | Extruded | TO-220 | 20mm | 17.5mm | 16mm | View |
| HSK-044-02 | Extruded | TO-220 | 25mm | 17.5mm | 16mm | View |
| HSK-044-03 | Extruded | TO-220 | 38mm | 17.5mm | 16mm | View |
| HSK-044-04 | Extruded | TO-220 | 50mm | 17.5mm | 16mm | View |
| HSK-045-01 | Extruded | TO-220 | 25mm | 18.5mm | 22.8mm | View |
| HSK-045-02 | Extruded | TO-220 | 38mm | 18.5mm | 22.8mm | View |
| HSK-045-03 | Extruded | TO-220 | 50mm | 18.5mm | 22.8mm | View |
| HSK-045-04 | Extruded | TO-220 | 63mm | 18.5mm | 22.8mm | View |
| HSK-045-05 | Extruded | TO-220 | 75mm | 18.5mm | 22.8mm | View |
| HSK-045-06 | Extruded | TO-247 | 38mm | 21.5mm | 22.8mm | View |
| HSK-045-07 | Extruded | TO-247 | 50mm | 21.5mm | 22.8mm | View |
| HSK-045-08 | Extruded | TO-247 | 63mm | 21.5mm | 22.8mm | View |
| HSK-045-09 | Extruded | TO-247 | 75mm | 21.5mm | 22.8mm | View |
| HSK-046-01 | Extruded | TO-220 | 25mm | 18.5mm | 22.8mm | View |
| HSK-046-02 | Extruded | TO-220 | 38mm | 18.5mm | 22.8mm | View |
| HSK-046-03 | Extruded | TO-220 | 50mm | 18.5mm | 22.8mm | View |
| HSK-046-04 | Extruded | TO-220 | 63mm | 18.5mm | 22.8mm | View |
| HSK-046-05 | Extruded | TO-220 | 75mm | 18.5mm | 22.8mm | View |
| HSK-046-06 | Extruded | TO-247 | 38mm | 21.5mm | 22.8mm | View |
| HSK-046-07 | Extruded | TO-247 | 50mm | 21.5mm | 22.8mm | View |
| HSK-046-08 | Extruded | TO-247 | 63mm | 21.5mm | 22.8mm | View |
| HSK-046-09 | Extruded | TO-247 | 75mm | 21.5mm | 22.8mm | View |
| HSK-047-01 | Extruded | TO-220 | 25mm | 18.5mm | 34.8mm | View |
| HSK-047-02 | Extruded | TO-220 | 38mm | 18.5mm | 34.8mm | View |
| HSK-047-03 | Extruded | TO-220 | 50mm | 18.5mm | 34.8mm | View |
| HSK-047-04 | Extruded | TO-220 | 63mm | 18.5mm | 34.8mm | View |

# Board Level Heat Sinks

| PART NUMBER | TYPE | COMPONENT PACKAGE | LENGTH | HEIGHT | WIDTH | PRODUCT DATA |
|---|---|---|---|---|---|---|
| HSK-047-05 | Extruded | TO-220 | 75mm | 18.5mm | 34.8mm | View |
| HSK-047-06 | Extruded | TO-247 | 38mm | 21.5mm | 34.8mm | View |
| HSK-047-07 | Extruded | TO-247 | 50mm | 21.5mm | 34.8mm | View |
| HSK-047-08 | Extruded | TO-247 | 63mm | 21.5mm | 34.8mm | View |
| HSK-047-09 | Extruded | TO-247 | 75mm | 21.5mm | 34.8mm | View |
| HSK-048-01 | Extruded | TO-220 | 25mm | 18.5mm | 34.8mm | View |
| HSK-048-02 | Extruded | TO-220 | 38mm | 18.5mm | 34.8mm | View |
| HSK-048-03 | Extruded | TO-220 | 50mm | 18.5mm | 34.8mm | View |
| HSK-048-04 | Extruded | TO-220 | 63mm | 18.5mm | 34.8mm | View |
| HSK-048-05 | Extruded | TO-220 | 75mm | 18.5mm | 34.8mm | View |
| HSK-048-06 | Extruded | TO-247 | 38mm | 21.5mm | 34.8mm | View |
| HSK-048-07 | Extruded | TO-247 | 50mm | 21.5mm | 34.8mm | View |
| HSK-048-08 | Extruded | TO-247 | 63mm | 21.5mm | 34.8mm | View |
| HSK-048-09 | Extruded | TO-247 | 75mm | 21.5mm | 34.8mm | View |
| HSK-049-01 | Extruded | TO-220 | 25mm | 18.5mm | 42mm | View |
| HSK-049-02 | Extruded | TO-220 | 38mm | 18.5mm | 42mm | View |
| HSK-049-03 | Extruded | TO-220 | 50mm | 18.5mm | 42mm | View |
| HSK-049-04 | Extruded | TO-220 | 63mm | 18.5mm | 42mm | View |
| HSK-049-05 | Extruded | TO-220 | 75mm | 18.5mm | 42mm | View |
| HSK-049-06 | Extruded | TO-247 | 38mm | 21.5mm | 42mm | View |
| HSK-049-07 | Extruded | TO-247 | 50mm | 21.5mm | 42mm | View |
| HSK-049-08 | Extruded | TO-247 | 63mm | 21.5mm | 42mm | View |
| HSK-049-09 | Extruded | TO-247 | 75mm | 21.5mm | 42mm | View |
| HSK-050-01 | Extruded | TO-220 | 25mm | 18.5mm | 42mm | View |
| HSK-050-02 | Extruded | TO-220 | 38mm | 18.5mm | 42mm | View |
| HSK-050-03 | Extruded | TO-220 | 50mm | 18.5mm | 42mm | View |
| HSK-050-04 | Extruded | TO-220 | 63mm | 18.5mm | 42mm | View |
| HSK-050-05 | Extruded | TO-220 | 75mm | 18.5mm | 42mm | View |
| HSK-050-06 | Extruded | TO-247 | 38mm | 21.5mm | 42mm | View |
| HSK-050-07 | Extruded | TO-247 | 50mm | 21.5mm | 42mm | View |
| HSK-050-08 | Extruded | TO-247 | 63mm | 21.5mm | 42mm | View |
| HSK-050-09 | Extruded | TO-247 | 75mm | 21.5mm | 42mm | View |
| HSK-051-01 | Extruded | TO-220 | 20mm | 17.5mm | 15mm | View |
| HSK-051-02 | Extruded | TO-220 | 25mm | 17.5mm | 15mm | View |
| HSK-051-03 | Extruded | TO-220 | 30mm | 17.5mm | 15mm | View |
| HSK-051-04 | Extruded | TO-220 | 35mm | 17.5mm | 15mm | View |
| HSK-051-05 | Extruded | TO-220 | 40mm | 17.5mm | 15mm | View |
| HSK-053-01 | Extruded | TO-220 | 25mm | 18.5mm | 44.5mm | View |
| HSK-053-02 | Extruded | TO-220 | 38mm | 18.5mm | 44.5mm | View |
| HSK-053-03 | Extruded | TO-220 | 50mm | 18.5mm | 44.5mm | View |
| HSK-053-04 | Extruded | TO-220 | 63mm | 18.5mm | 44.5mm | View |
| HSK-053-05 | Extruded | TO-220 | 75mm | 18.5mm | 44.5mm | View |
| HSK-053-06 | Extruded | TO-247 | 38mm | 21.5mm | 44.5mm | View |

| PART NUMBER | TYPE | COMPONENT PACKAGE | LENGTH | HEIGHT | WIDTH | PRODUCT DATA |
|---|---|---|---|---|---|---|
| HSK-053-07 | Extruded | TO-247 | 50mm | 21.5mm | 44.5mm | View |
| HSK-053-08 | Extruded | TO-247 | 63mm | 21.5mm | 44.5mm | View |
| HSK-053-09 | Extruded | TO-247 | 75mm | 21.5mm | 44.5mm | View |
| HSK-054-01 | Extruded | TO-220 | 25mm | 18.5mm | 44.5mm | View |
| HSK-054-02 | Extruded | TO-220 | 38mm | 18.5mm | 44.5mm | View |
| HSK-054-03 | Extruded | TO-220 | 50mm | 18.5mm | 44.5mm | View |
| HSK-054-04 | Extruded | TO-220 | 63mm | 18.5mm | 44.5mm | View |
| HSK-054-05 | Extruded | TO-220 | 75mm | 18.5mm | 44.5mm | View |
| HSK-054-06 | Extruded | TO-247 | 38mm | 21.5mm | 44.5mm | View |
| HSK-054-07 | Extruded | TO-247 | 50mm | 21.5mm | 44.5mm | View |
| HSK-054-08 | Extruded | TO-247 | 63mm | 21.5mm | 44.5mm | View |
| HSK-054-09 | Extruded | TO-247 | 75mm | 21.5mm | 44.5mm | View |
| HSK-055-01 | Extruded | TO-220 | 25mm | 18.5mm | 60.01mm | View |
| HSK-055-02 | Extruded | TO-220 | 38mm | 18.5mm | 60.01mm | View |
| HSK-055-03 | Extruded | TO-220 | 50mm | 18.5mm | 60.01mm | View |
| HSK-055-04 | Extruded | TO-220 | 63mm | 18.5mm | 60.01mm | View |
| HSK-055-05 | Extruded | TO-220 | 75mm | 18.5mm | 60.01mm | View |
| HSK-055-06 | Extruded | TO-247 | 38mm | 21.5mm | 60.01mm | View |
| HSK-055-07 | Extruded | TO-247 | 50mm | 21.5mm | 60.01mm | View |
| HSK-055-08 | Extruded | TO-247 | 63mm | 21.5mm | 60.01mm | View |
| HSK-055-09 | Extruded | TO-247 | 75mm | 21.5mm | 60.01mm | View |
| HSK-057-01 | Extruded | TO-220 | 20mm | 17.5mm | 16mm | View |
| HSK-057-02 | Extruded | TO-220 | 25mm | 17.5mm | 16mm | View |
| HSK-057-03 | Extruded | TO-220 | 30mm | 17.5mm | 16mm | View |
| HSK-057-04 | Extruded | TO-220 | 35mm | 17.5mm | 16mm | View |
| HSK-057-05 | Extruded | TO-220 | 40mm | 17.5mm | 16mm | View |
| HSK-058-01 | Extruded | TO-220 | 20mm | 17.5mm | 16mm | View |
| HSK-058-02 | Extruded | TO-220 | 25mm | 17.5mm | 16mm | View |
| HSK-058-03 | Extruded | TO-220 | 30mm | 17.5mm | 16mm | View |
| HSK-058-04 | Extruded | TO-220 | 35mm | 17.5mm | 16mm | View |
| HSK-058-05 | Extruded | TO-220 | 40mm | 17.5mm | 16mm | View |
| HSK-059-01 | Extruded | TO-220 | 20mm | 17.5mm | 10mm | View |
| HSK-059-02 | Extruded | TO-220 | 25mm | 17.5mm | 10mm | View |
| HSK-059-03 | Extruded | TO-220 | 30mm | 17.5mm | 10mm | View |
| HSK-059-04 | Extruded | TO-220 | 35mm | 17.5mm | 10mm | View |
| HSK-059-05 | Extruded | TO-220 | 40mm | 17.5mm | 10mm | View |
| HSK-060-01 | Extruded | TO-220 | 20mm | 17.5mm | 10mm | View |
| HSK-060-02 | Extruded | TO-220 | 25mm | 17.5mm | 10mm | View |
| HSK-060-03 | Extruded | TO-220 | 30mm | 17.5mm | 10mm | View |
| HSK-060-04 | Extruded | TO-220 | 35mm | 17.5mm | 10mm | View |
| HSK-060-05 | Extruded | TO-220 | 40mm | 17.5mm | 10mm | View |
| HSK-061 | Stamped | TO-220/ SOT-32 | 18mm | 8.5mm | 26mm | View |

| PART NUMBER | TYPE | COMPONENT PACKAGE | LENGTH | HEIGHT | WIDTH | PRODUCT DATA |
|---|---|---|---|---|---|---|
| HSK-062 | Stamped | TO-220 | 35mm | 12.8mm | 25mm | View |
| HSK-063 | Stamped | TO-220/ SOT-32 | 33mm | 10.5mm | 25.5mm | View |
| HSK-064 | Stamped | TO-220 | 30.5mm | 12.5mm | 25.4mm | View |
| HSK-065 | Stamped | SOT-32 | 30.5mm | 12.5mm | 25.5mm | View |
| HSK-066 | Stamped | TO-220 | 19mm | 6.5mm | 12.5mm | View |
| HSK-067 | Stamped | TO-220 | 19mm | 9.5mm | 18.5mm | View |
| HSK-068 | Stamped | TO-220 | 36.2mm | 6.22mm | 14.3mm | View |
| HSK-069 | Stamped | TO-220 | 25mm | 7mm | 14.3mm | View |

# Transceivers

Adam Tech's Fiber Optic Transceivers transmit and receive data with speed and reliability. The offering includes SFP, SFP+, SFP28, QSFP+, and QSFP28 pluggable modules. With data rates ranging from 1.25G to 100G and transmissions between 10km and 100m, this product line covers a wide range of applications. Most of the offering is composed of single fiber bidirectional transceivers, whose paired A and B parts transmit and receive in two different directions of the center wavelength to cooperatively achieve bi-directional transmission of optical signals on a fiber.



## FEATURES & SPECIFICATIONS

### FEATURES:

SFP, SFP+, SFP28, QSFP+, & QSFP28 modules
Data rates: 1.25G, 10G, 25G, 40G, & 100G
Transmissions: 10km, 20km, 40km, & 100M
Center wavelengths: 850nm, 1310nm, 1270T/1330R, 1330T/1270R, 1310T/1550R, & 1550T/1310R
Single fiber bidirectional
RoHS compliant

### APPLICATIONS:

Ethernet
Fiber channel
Wireless
Firewalls
Routers
High-bandwidth data communications

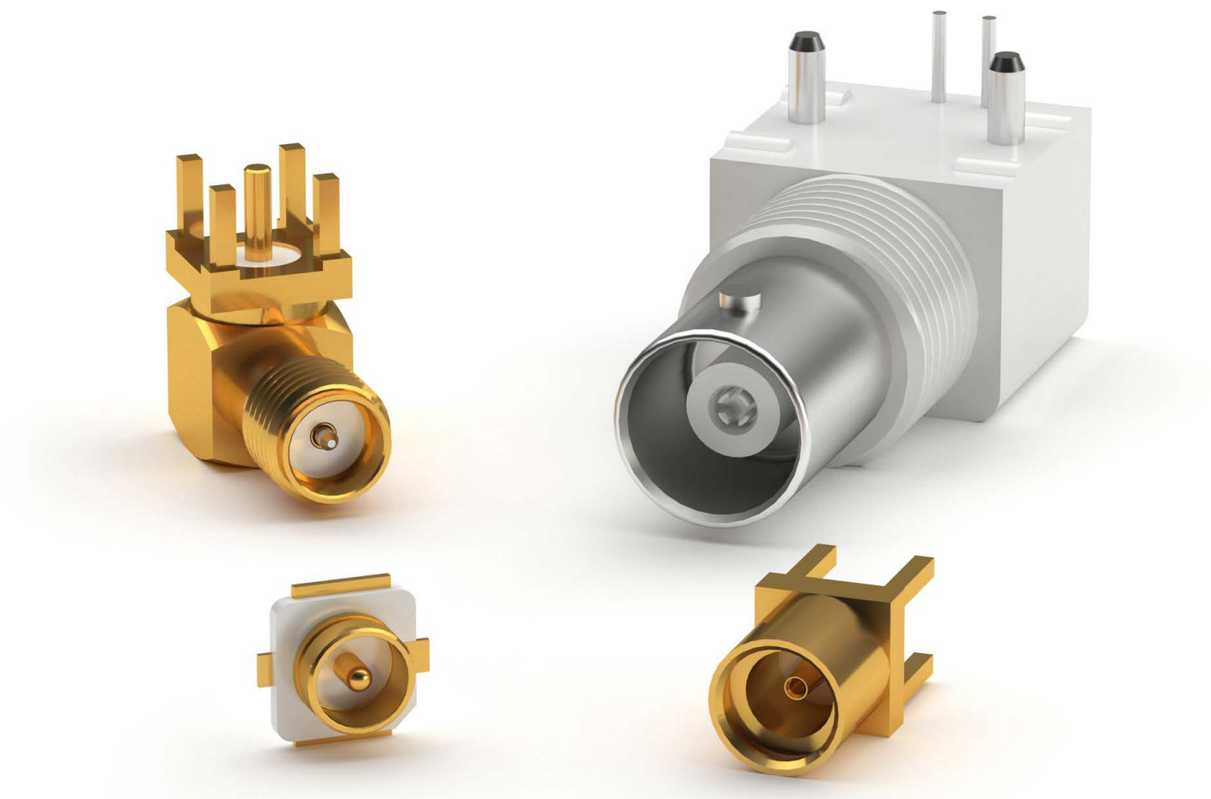
| PART NUMBER | TYPE | SPEED | TRANSMISSION RANGE | CENTER WAVELENGTH | BIDIRECTIONAL (BIDI) | PRODUCT DATA |
|---|---|---|---|---|---|---|
| TVASFPBD-X-X | SFP | 1.25G | 10-20km | 1310/1550nm | Yes | View |
| TVASFPSM-X | SFP | 1.25G | 10-20km | 1310nm | No | View |
| TVBSFPPBD-X-X | SFP+ | 10G | 10-40km | 1270/1330nm | Yes | View |
| TVCSFP28BD-X-X | SFP28 | 25G | 10km | 1270/1330nm | Yes | View |
| TVDQSFPPSR4-1 | QSFP+ | 40G | 100m | 850nm | No | View |
| TVEQSFP28SR4-1 | QSFP28 | 100G | 100m | 850nm | No | View |

## CASE STUDY



Transceivers are commonly utilized in servers, as seen above, to transmit and receive fiber optic signals.

Adam Tech's RF connector series are a comprehensive assortment of Radio Frequency Signal Connectors in standard, miniature, subminiature, micro miniature, and surface mount styles. Included are BNC, TNC, FME, FMA, SMA, SMB, N, F, PAL, UHF, Mini UHF, MCX, MMCX, MHF, W.FL, & 1.6/5.6 coupling versions. Each has a standard industry interface. Most are ideal for applications where size and weight are important in densely populated applications. All afford excellent RF characteristics.



## FEATURES & SPECIFICATIONS

### FEATURES:
Bodies available with gold or nickel plating
Insulators available in Teflon, Delrin, and Polypropylene
Standard availability of 50 or 75 ohms impedance
Through hole and SMT types for printed circuit board versions
Male and female types available in bulkhead and cable mount versions

### MATING CONNECTORS:
Adam Tech RF series connectors and all industry Standard RF connectors

### PACKAGING:
Anti-ESD plastic trays or bags

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Housing: Brass, Nickel plated
Zinc diecast, Nickel plated
Standard Insulators: Delrin, Polypropylene or Teflon
Optional Hi-Temp Insulator: Teflon
Contacts: Beryllium copper, Gold plated

### Electrical:
Operating voltage: 150V AC max.
Contact resistance: 5 mΩ max. initial
Impedance: 50 or 75 ohms
Insulation resistance: 5000 M min.
Dielectric withstanding voltage: 1000V AC for 1 minute
VSWR: 1.2 max
Frequency range: 0 – 6 GHZ

### Mechanical:
Engagement force: 4.5 lbs max
Disengagement force: 2 lbs min
Cable retention: equal to breaking strength of cable employed
Durability: 500 cycles

### Temperature Rating:
Operating temperature: -20°C to +85°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

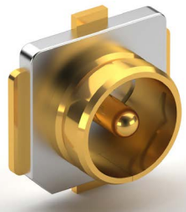
## PART NUMBER CONFIGURATION

**RF - 1 - 01 - D - 01 - 50**

| SERIES | STYLE | TYPE | INSULATOR MATERIAL | CABLE TYPE OR APPLICATION | IMPEDENCE |
|---|---|---|---|---|---|
| **RF** = *RF Connector* | **1** = *BNC*<br>**2** = *SMA*<br>**3** = *SMB*<br>**4** = *F*<br>**5** = *N*<br>**6** = *UHF*<br>**7** = *TNC*<br>**8** = *FME*<br>**9** = *Mini UHF*<br>**11** = *MCX*<br>**12** = *MMCX*<br>**20** = *MHF*<br>**28** = *W. FL* | **01** *thru* **99** | **T** = *Teflon*<br>**D** = *Delrin*<br>**P** = *Polypropylene* | **00** = *PCB Mount*<br>**01** = *55U/58/58A/58C/140U/141/141A/142U/223U/303*<br>**02** = *174U/188A/316U*<br>**03** = *179U/187U*<br>**04** = *59/59A/59B/62/62AU/62B/62C/210*<br>**05** = *RG 6/U*<br>**06** = *RG 213/U*<br>**07** = *.141-Semi-Rigid*<br>**08** = *.085/.086-Semi-Rigid*<br>**AS** = *Adapter or Splitter* | **50** = *50 Ohms*<br>**75** = *75 Ohms* |

### OPTIONS
*Add as suffix to basic part no.*
**HT** = *Hi-Temp insulator for hi-temp soldering processes up to 260°C*
**G** = *Gold plated body and contact*

## W. FL



RF28-05-L-00-50-G

| PART NUMBER | TYPE | INSULATOR MATERIAL | IMPEDENCE | CABLE TYPE OR APPLICATION | OPTIONS | GENDER | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| RF-28-02-T-81-50-G-TR | W. FL | Teflon | 50 ohms | | | | View |
| RF28-01-T-00-50-G | W. FL | Teflon | 50 ohms | PCB Mount | | | View |

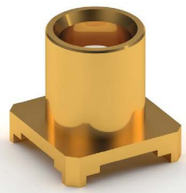
## MMCX



RF12-07A-T-00-50-G

| PART NUMBER | TYPE | INSULATOR MATERIAL | IMPEDENCE | CABLE TYPE OR APPLICATION | OPTIONS | GENDER | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| RF12-04-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | Male | View |
| RF12-05-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | Female | View |
| RF12-05A-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-05A-T-00-50-G-TR | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-06-T-02-50-G | MMCX | Teflon | 50 ohms | 174U/188A/316U | | | View |
| RF12-06-T-21-50-G | MMCX | Teflon | 50 ohms | | | | View |
| RF12-06A-T-02-50-G | MMCX | Teflon | 50 ohms | 174U/188A/316U | | | View |
| RF12-07A-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-07B-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-07C-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-07D-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-07E-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-07H-T-00-50-G | | | | | | | View |
| RF12-08-T-21-50-G | MMCX | Teflon | 50 ohms | | | | View |
| RF12-08A-T-21-50-G | MMCX | Teflon | 50 ohms | | | | View |
| RF12-08B-T-02-50-G | MMCX | Teflon | 50 ohms | 174U/188A/316U | | | View |
| RF12-09-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-10-T-21-50-G | MMCX | Teflon | 50 ohms | | | | View |
| RF12-13-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-15-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-15-T-02-50-G | MMCX | Teflon | 50 ohms | 174U/188A/316U | | | View |
| RF12-16-T-02-50 | MMCX | Teflon | 50 ohms | 174U/188A/316U | | | View |
| RF12-16U-T-02-50-G | MMCX | Teflon | 50 ohms | 174U/188A/316U | | | View |
| RF12-17-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-20-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-21-T-02-50-G | MMCX | Teflon | 50 ohms | 174U/188A/316U | | | View |
| RF12-25-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-25A-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-26-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-27-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-28-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-29-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-30-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-31-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-32-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-32B-T-00-50-G-TR | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-35-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-35-T-00-50-G-TR | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-35A-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-36-T-00-50-G-TR | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-40-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF12-41-T-00-50-G | MMCX | Teflon | 50 ohms | PCB Mount | | | View |

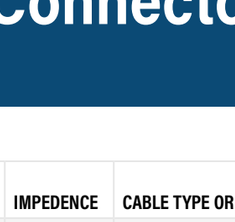
## MCX



RF11-01-T-00-50

| PART NUMBER | TYPE | INSULATOR MATERIAL | IMPEDENCE | CABLE TYPE OR APPLICATION | OPTIONS | GENDER | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| RF11-01-T-00-50-G | MCX | Teflon | 50 ohms | PCB Mount | | Female | View |
| RF11-04-D-00-50-G | MCX | Delrin | 50 ohms | PCB Mount | | | View |
| RF11-04-D-00-50-G-15 | MCX | Delrin | 50 ohms | PCB Mount | | | View |
| RF11-04-T-00-50-G | MCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF11-04-T-00-50-G-15 | MCX | Teflon | 50 ohms | PCB Mount | | | View |
| RF11-04-T-00-75-G | MCX | Teflon | 75 ohms | 59 / 59A / 59B / 62 / 62AU / 62B / 62C 210 | | | View |
| RF11-06-T-00-50-G | MCX | Teflon | 50 ohms | RG 213/U | | | View |
| RF11-07-T-02-50-G | MCX | Teflon | 50 ohms | 174U/188A/316U | | | View |
| RF11-07-T-03-75-G | MCX | Teflon | 75 ohms | 179U/187U | | | View |
| RF11-07A-T-02-50-G | MCX | Teflon | 50 ohms | 174U/188A/316U | | | View |
| RF11-11-T-02-50-G | MCX | Teflon | 50 ohms | 174U/188A/316U | | | View |
| RF11-11-T-03-75-G | MCX | Teflon | 75 ohms | 179U/187U | | | View |
| RF11-11A-T-02-50-G | MCX | Teflon | 50 ohms | 174U/188A/316U | | | View |

## BNC



RF1-01A-D-00-75-M

| PART NUMBER | TYPE | INSULATOR MATERIAL | IMPEDENCE | CABLE TYPE OR APPLICATION | OPTIONS | GENDER | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| RF1- 86-D-00-50 | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RF1-01-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RF1-01-D-00-75-MC | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RF1-01-P-00-50 | BNC | Polypropylene | 50 ohms | PCB Mount | | | View |
| RF1-01-P-00-50-BK | BNC | Polypropylene | 50 ohms | PCB Mount | | | View |
| RF1-01-P-00-50-HDW | BNC | Polypropylene | 50 ohms | PCB Mount | | | View |
| RF1-01-P-00-75 | BNC | Polypropylene | 75 ohms | PCB Mount | | | View |
| RF1-01-P-00-75-M | BNC | Polypropylene | 75 ohms | PCB Mount | | | View |
| RF1-01-P-00-75-M-HDW | BNC | Polypropylene | 75 ohms | PCB Mount | | | View |
| RF1-01-P-00-75-WT-HDW | BNC | Polypropylene | 75 ohms | PCB Mount | | | View |
| RF1-01A-00-P-50-M | BNC | Polypropylene | 50 ohms | | | | View |
| RF1-01A-D-00-50 | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RF1-01A-D-00-50-WT | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RF1-01A-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RF1-01A-D-00-75-M | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RF1-01A-D-00-75-M-HDW | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RF1-01A-D-00-75-M-HT | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RF1-01A-P-00-50 | BNC | Polypropylene | 50 ohms | PCB Mount | | | View |
| RF1-01A-P-00-50-M | BNC | Polypropylene | 50 ohms | PCB Mount | | | View |
| RF1-01A-P-00-50-M-HDW | BNC | Polypropylene | 50 ohms | PCB Mount | | | View |
| RF1-01A-P-00-75 | BNC | Polypropylene | 75 ohms | PCB Mount | | | View |
| RF1-01A-P-00-75-M | BNC | Polypropylene | 75 ohms | PCB Mount | | | View |
| RF1-01A-PP-00-50-FAC | BNC | | 50 ohms | PCB Mount | | | View |
| RF1-01A-PP-00-75-HDW | BNC | | 75 ohms | PCB Mount | | | View |
| RF1-01A-T-00-50 | BNC | Teflon | 50 ohms | PCB Mount | | | View |
| RF1-01B-D-00-50-HDW | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RF1-01B-D-00-50-WT-HDW | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RF1-01B-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RF1-01B-D-00-75-HDW | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RF1-01B-D-00-75-WT-HDW | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RF1-01C-D-00-75-HDW | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RF1-01D-D-00-75-MC | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RF1-01D-P-00-50-M | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RF1-01D-P-00-75 | BNC | Polypropylene | 75 ohms | PCB Mount | | | View |
| RF1-01D-P-00-75-M | BNC | Polypropylene | 75 ohms | PCB Mount | | | View |
| RF1-01D-P-00-75-M-HDW | BNC | Polypropylene | 75 ohms | PCB Mount | | | View |
| RF1-01E-D-00-50 | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RF1-01E-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RF1-01F-D-00-75-HDW | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RF1-01G-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RF1-01H-D-00-XX-BK-HDW | BNC | Delrin | | PCB Mount | | | View |
| RF1-01H-D-00-XX-HDW | BNC | Delrin | | PCB Mount | | | View |
| RF1-01H-D-00-XX-M-HDW | BNC | Polypropylene | | PCB Mount | | | View |
| RF1-01K-D-00-50-BK-HDW | BNC | | | PCB Mount | | | View |
| RF1-01V-D-00-50 | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RF1-01V-P-00-50 | BNC | Polypropylene | 50 ohms | PCB Mount | | | View |
| RF1-01V-P-00-50-M-HDW | BNC | Polypropylene | 50 ohms | PCB Mount | | | View |
| RF1-01V-P-00-75-HDW | BNC | Polypropylene | 75 ohms | PCB Mount | | | View |
| RF1-01V-P-00-75-M | BNC | Polypropylene | 75 ohms | PCB Mount | | | View |
| RF1-01V-P-00-75-WT-HDW | BNC | Polypropylene | 75 ohms | PCB Mount | | | View |
| RF1-03-02-T-50 | BNC | Teflon | 50 ohms | | | | View |
| RF1-03-A-04-75 | BNC | | 75 ohms | 59 / 59A / 59B / 62 / 62AU / 62B / 62C 210 | | | View |
| RF1-03-D-01-50 | BNC | Delrin | 50 ohms | | | | View |
| RF1-03-D-02-50 | BNC | Delrin | 50 ohms | | | | View |

| PART NUMBER | TYPE | INSULATOR MATERIAL | IMPEDENCE | CABLE TYPE OR APPLICATION | OPTIONS | GENDER | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| RFI-03-D-03-75 | BNC | Delrin | 75 ohms | | | | View |
| RFI-03-D-04-75 | BNC | Delrin | 75 ohms | | | | View |
| RFI-03-D-05-75 | BNC | Delrin | 75 ohms | RG 6/U | | | View |
| RFI-03-D-20-50 | BNC | Delrin | 50 ohms | | | | View |
| RFI-03-P-02-50 | BNC | Polypropylene | 50 ohms | 174U/188A/316U | | | View |
| RFI-03-P-59-50 | BNC | Polypropylene | 50 ohms | | | | View |
| RFI-03-T-02-50 | BNC | Teflon | 50 ohms | 174U/188A/316U | | | View |
| RFI-03-T-03-75 | BNC | Teflon | 75 ohms | 179U/187U | | | View |
| RFI-03-T-04-XX | BNC | Teflon | | 59 / 59A / 59B / 62 / 62AU / 62B / 62C 210 | | | View |
| RFI-03-T-05-75 | BNC | Teflon | 75 ohms | RG 6/U | | | View |
| RFI-03-T-20-50 | BNC | Teflon | 50 ohms | | | | View |
| RFI-03A-T-02-75 | BNC | Teflon | 75 ohms | 174U/188A/316U | | | View |
| RFI-03B-D-02-50 | BNC | Delrin | 50 ohms | 174U/188A/316U | | | View |
| RFI-04-T-01-50 | BNC | Teflon | 50 ohms | 55U / 58 / 58A / 58C / 140U / 141 / 141A / 142U / 223U / 303 | | | View |
| RFI-04-T-02-50 | BNC | Teflon | 50 ohms | 174U/188A/316U | | | View |
| RFI-04-T-03-75 | BNC | Teflon | 75 ohms | 179U/187U | | | View |
| RFI-04-T-04-75 | BNC | Teflon | 75 ohms | 59 / 59A / 59B / 62 / 62AU / 62B / 62C 210 | | | View |
| RFI-04-T-21-50 | BNC | Teflon | 50 ohms | 59 / 59A / 59B / 62 / 62AU / 62B / 62C 210 | | | View |
| RFI-04A-D-02-50 | BNC | Delrin | 50 ohms | 174U/188A/316U | | | View |
| RFI-06-D-AS-50 | BNC | Delrin | 50 ohms | Adapter or Splitter | | | View |
| RFI-06-D-XX-50 | BNC | Delrin | 50 ohms | | | | View |
| RFI-07-T-00-50 | BNC | Teflon | 50 ohms | PCB Mount | | | View |
| RFI-07-T-00-75 | BNC | Teflon | 75 ohms | PCB Mount | | Female | View |
| RFI-07A-T-00-75 | BNC | Teflon | 75 ohms | PCB Mount | | | View |
| RFI-07B-T-00-75 | BNC | Teflon | 75 ohms | PCB Mount | | | View |
| RFI-07C-T-00-75 | BNC | Teflon | 75 ohms | PCB Mount | | | View |
| RFI-08-D-00-50-HDW | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RFI-08-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RFI-08-D-14-50-G | BNC | Delrin | 50 ohms | | | | View |
| RFI-08-T-14-50 | BNC | Teflon | 50 ohms | | | | View |
| RFI-08A-D-00-50-HDW | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RFI-100-P-00-75-HDW | BNC | Polypropylene | 75 ohms | PCB Mount | | | View |
| RFI-101-P-00-75 | BNC | Polypropylene | 75 ohms | PCB Mount | | | View |
| RFI-105-T-00-75-G | BNC | Teflon | 75 ohms | PCB Mount | | | View |
| RFI-106-D-00-50-HDW | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RFI-106-D-00-75-HDW | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RFI-107-D-01-50 | BNC | Delrin | 50 ohms | 55U / 58 / 58A / 58C / 140U / 141 / 141A / 142U / 223U / 303 | | | View |
| RFI-108-T-00-50 | BNC | Teflon | 50 ohms | PCB Mount | | | View |
| RFI-108-T-00-50-GP | BNC | Teflon | 50 ohms | PCB Mount | | | View |
| RFI-108-T-00-75 | BNC | Teflon | 75 ohms | PCB Mount | | | View |

| PART NUMBER | TYPE | INSULATOR MATERIAL | IMPEDENCE | CABLE TYPE OR APPLICATION | OPTIONS | GENDER | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| RFI-108A-T-00-75-HDW | BNC | Teflon | 75 ohms | PCB Mount | | | View |
| RFI-109-T-01-50 | BNC | Teflon | 50 ohms | 55U / 58 / 58A / 58C / 140U / 141 / 141A / 142U / 223U / 303 | | | View |
| RFI-11-T-00-50 | BNC | Teflon | 50 ohms | PCB Mount | | | View |
| RFI-11-T-00-75 | BNC | Teflon | 75 ohms | PCB Mount | | | View |
| RFI-120-D-00-50 | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RFI-120-D-00-50-RA | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RFI-120A-D-00-75-RA | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RFI-125-T-AS-75 | BNC | Teflon | 75 ohms | | | | View |
| RFI-126-T-AS-75 | BNC | Teflon | 75 ohms | | | | View |
| RFI-127-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RFI-127A-D-00-50 | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RFI-127A-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RFI-128-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RFI-128A-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RFI-129-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RFI-129A-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RFI-13-D-01-50-G | BNC | Delrin | 50 ohms | 55U / 58 / 58A / 58C / 140U / 141 / 141A / 142U / 223U / 303 | | | View |
| RFI-130-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RFI-131-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RFI-132-D-03-75 | BNC | Delrin | 75 ohms | 179U/187U | | | View |
| RFI-133-T-00-75 | BNC | Teflon | 75 ohms | PCB Mount | | | View |
| RFI-134-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RFI-134A-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RFI-140-P-00-75 | BNC | Polypropylene | 75 ohms | PCB Mount | | | View |
| RFI-15-D-00-50 | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RFI-15-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RFI-15-D-00-75-50 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RFI-17-D-04-75 | BNC | Delrin | 75 ohms | 59 / 59A / 59B / 62 / 62AU / 62B / 62C 210 | | | View |
| RFI-17-D-05-75 | BNC | Delrin | 75 ohms | RG 6/U | | | View |
| RFI-18-D-14-50 | BNC | Delrin | 50 ohms | | | | View |
| RFI-19-D-03-75 | BNC | Delrin | 75 ohms | 179U/187U | | | View |
| RFI-19-T-02-50 | BNC | Teflon | 50 ohms | 174U/188A/316U | | | View |
| RFI-22-D-XX-50 | BNC | Delrin | 50 ohms | | | | View |
| RFI-22-D-XX-75 | BNC | Delrin | 75 ohms | | | | View |
| RFI-23-D-XX-50 | BNC | Delrin | 50 ohms | | | | View |
| RFI-23-D-XX-75 | BNC | Delrin | 75 ohms | | | | View |
| RFI-23-T-XX-50 | BNC | Teflon | 50 ohms | | | | View |
| RFI-23A-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RFI-23A-D-XX-50 | BNC | Delrin | 50 ohms | | | | View |
| RFI-26-T-01-50 | BNC | Teflon | 50 ohms | 55U / 58 / 58A / 58C / 140U / 141 / 141A / 142U / 223U / 303 | | | View |

| PART NUMBER | TYPE | INSULATOR MATERIAL | IMPEDENCE | CABLE TYPE OR APPLICATION | OPTIONS | GENDER | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| RFI-26-T-02-50 | BNC | Teflon | 50 ohms | 174U/188A/316U | | | View |
| RFI-26-T-03-75 | BNC | Teflon | 75 ohms | 179U/187U | | | View |
| RFI-26A-P-01-75 | BNC | Polypropylene | 75 ohms | 55U / 58 / 58A / 58C / 140U / 141 / 141A / 142U / 223U / 303 | | | View |
| RFI-26A-P-04-75 | BNC | Polypropylene | 75 ohms | 59 / 59A / 59B / 62 / 62AU / 62B / 62C 210 | | | View |
| RFI-26A-P-05-75 | BNC | Polypropylene | 75 ohms | RG 6/U | | | View |
| RFI-27-P-00-75-BLK | BNC | Polypropylene | 75 ohms | PCB Mount | | | View |
| RFI-27-P-00-75-WT | BNC | Polypropylene | 75 ohms | PCB Mount | | | View |
| RFI-28A-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RFI-28A-T-00-75 | BNC | Teflon | 75 ohms | PCB Mount | | | View |
| RFI-29-D-00-50 | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RFI-29-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RFI-29-T-00-50 | BNC | Teflon | 50 ohms | PCB Mount | | | View |
| RFI-29-T-00-75 | BNC | Teflon | 75 ohms | PCB Mount | | | View |
| RFI-29A-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RFI-30-D-XX-50 | BNC | Delrin | 50 ohms | | | | View |
| RFI-31-D-XX-75 | BNC | Delrin | 75 ohms | | | | View |
| RFI-34-D-XX-75 | BNC | Delrin | 75 ohms | | | | View |
| RFI-35-T-00-50 | BNC | Teflon | 50 ohms | PCB Mount | | | View |
| RFI-36-P-04-75 | BNC | Polypropylene | 75 ohms | 59 / 59A / 59B / 62 / 62AU / 62B / 62C 210 | | | View |
| RFI-36-P-05-75 | BNC | Polypropylene | 75 ohms | RG 6/U | | | View |
| RFI-39-D-01-50 | BNC | Delrin | 50 ohms | 55U / 58 / 58A / 58C / 140U / 141 / 141A / 142U / 223U / 303 | | | View |
| RFI-39-D-04-75 | BNC | Delrin | 75 ohms | 59 / 59A / 59B / 62 / 62AU / 62B / 62C 210 | | | View |
| RFI-41-D-01-50 | BNC | Delrin | 50 ohms | 55U / 58 / 58A / 58C / 140U / 141 / 141A / 142U / 223U / 303 | | | View |
| RFI-42-D-00-75-M-HDW | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RFI-42-P-00-50 | BNC | Polypropylene | 50 ohms | PCB Mount | | | View |
| RFI-42-P-00-50-HT | BNC | Polypropylene | 50 ohms | PCB Mount | Hi Temp Insulator | | View |
| RFI-43-T-30-75 | BNC | Teflon | 75 ohms | | | | View |
| RFI-44-D-00-50 | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RFI-44-D-AS-50-HDW | BNC | Delrin | 50 ohms | Adapter or Splitter | | | View |
| RFI-44-D-AS-75-HDW | BNC | Delrin | 75 ohms | Adapter or Splitter | | | View |
| RFI-45-T-00-50 | BNC | Teflon | 50 ohms | PCB Mount | | | View |
| RFI-46-P-00-50 | BNC | Polypropylene | 50 ohms | PCB Mount | | | View |
| RFI-47-P-00-50 | BNC | Polypropylene | 50 ohms | PCB Mount | | | View |
| RFI-48-D-AS-50-HDW | BNC | Delrin | 50 ohms | Adapter or Splitter | | | View |
| RFI-48-D-AS-75-HDW | BNC | Delrin | 75 ohms | Adapter or Splitter | | | View |
| RFI-48-T-XX-75 | BNC | Teflon | 75 ohms | | | | View |
| RFI-49-T-00-50 | BNC | Teflon | 50 ohms | PCB Mount | | | View |
| RFI-49-T-00-75 | BNC | Teflon | 75 ohms | PCB Mount | | | View |

| PART NUMBER | TYPE | INSULATOR MATERIAL | IMPEDENCE | CABLE TYPE OR APPLICATION | OPTIONS | GENDER | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| RFI-50-D-01-50 | BNC | Delrin | 50 ohms | 55U / 58 / 58A / 58C / 140U / 141 / 141A / 142U / 223U / 303 | | | View |
| RFI-50-D-04-75 | BNC | Delrin | 75 ohms | 59 / 59A / 59B / 62 / 62AU / 62B / 62C 210 | | | View |
| RFI-50-D-05-75 | BNC | Delrin | 75 ohms | RG 6/U | | | View |
| RFI-50-D-21-50 | BNC | Delrin | 50 ohms | | | | View |
| RFI-50A-D-21-50 | BNC | Delrin | 50 ohms | | | | View |
| RFI-51-T-02-50 | BNC | Teflon | 50 ohms | 174U/188A/316U | | | View |
| RFI-53-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RFI-53-P-00-50 | BNC | Polypropylene | 50 ohms | PCB Mount | | | View |
| RFI-54-D-01-50 | BNC | Delrin | 50 ohms | 55U / 58 / 58A / 58C / 140U / 141 / 141A / 142U / 223U / 303 | | | View |
| RFI-54-D-04-75 | BNC | Delrin | 75 ohms | 59 / 59A / 59B / 62 / 62AU / 62B / 62C 210 | | | View |
| RFI-59-D-AS-50 | BNC | Delrin | 50 ohms | Adapter or Splitter | | | View |
| RFI-60-D-00-50 | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RFI-61-D-01-50 | BNC | Delrin | 50 ohms | 55U / 58 / 58A / 58C / 140U / 141 / 141A / 142U / 223U / 303 | | | View |
| RFI-61-D-04-75 | BNC | Delrin | 75 ohms | 59 / 59A / 59B / 62 / 62AU / 62B / 62C 210 | | | View |
| RFI-62-D-01-50 | BNC | Delrin | 50 ohms | 55U / 58 / 58A / 58C / 140U / 141 / 141A / 142U / 223U / 303 | | | View |
| RFI-63-D-01-50 | BNC | Delrin | 50 ohms | 55U / 58 / 58A / 58C / 140U / 141 / 141A / 142U / 223U / 303 | | | View |
| RFI-64-D-02-50 | BNC | Delrin | 50 ohms | 174U/188A/316U | | | View |
| RFI-65-D-02-50 | BNC | Delrin | 50 ohms | 174U/188A/316U | | | View |
| RFI-66-D-00-50 | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RFI-66-T-00-50 | BNC | Teflon | 50 ohms | PCB Mount | | | View |
| RFI-68-P-01-50 | BNC | Polypropylene | 50 ohms | 55U / 58 / 58A / 58C / 140U / 141 / 141A / 142U / 223U / 303 | | | View |
| RFI-79-T-02-50 | BNC | Teflon | 50 ohms | 174U/188A/316U | | | View |
| RFI-83-T-04-75 | BNC | Teflon | 75 ohms | 59 / 59A / 59B / 62 / 62AU / 62B / 62C 210 | | | View |
| RFI-84-D-00-50 | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RFI-84-T-00-50-HDW | BNC | Teflon | 50 ohms | PCB Mount | | | View |
| RFI-85-D-00-75 | BNC | Delrin | 75 ohms | PCB Mount | | | View |
| RFI-89-T-00-75 | BNC | Teflon | 75 ohms | PCB Mount | | | View |
| RFI-91-D-01-50 | BNC | Delrin | 50 ohms | 55U / 58 / 58A / 58C / 140U / 141 / 141A / 142U / 223U / 303 | | | View |
| RFI-91-D-04-75 | BNC | Delrin | 75 ohms | 59 / 59A / 59B / 62 / 62AU / 62B / 62C 210 | | | View |
| RFI-92-T-02-50 | BNC | Teflon | 50 ohms | 174U/188A/316U | | | View |
| RFI-92-T-03-75 | BNC | Teflon | 75 ohms | 179U/187U | | | View |
| RFI-94-D-00-50 | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RFI-95-T-00-75 | BNC | Teflon | 75 ohms | PCB Mount | | | View |
| RFI-95-T-00-75-MC | BNC | Teflon | 75 ohms | PCB Mount | | | View |
| RFI-95A-P-00-50 | BNC | Polypropylene | 50 ohms | PCB Mount | | | View |

| PART NUMBER | TYPE | INSULATOR MATERIAL | IMPEDENCE | CABLE TYPE OR APPLICATION | OPTIONS | GENDER | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| RFI-96-D-00-50-HDW | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RFI-96A-D-00-50-HDW | BNC | Delrin | 50 ohms | PCB Mount | | | View |
| RFI-97-P-00-50 | BNC | Polypropylene | 50 ohms | PCB Mount | | | View |
| RFI-97-P-00-75 | BNC | Polypropylene | 75 ohms | PCB Mount | | | View |
| RFI-98-T-00-75-G-HDW-HT | BNC | Teflon | 75 ohms | PCB Mount | | | View |
| RFI-98-T-00-75-G-HDW-HT-L | BNC | Teflon | 75 ohms | PCB Mount | | | View |
| RFI-98-T-00-75-G-HDW-HT-M | BNC | Teflon | 75 ohms | PCB Mount | | | View |
| RFI-98A-T-00-75-G-HDW-HT-L | BNC | Teflon | 75 ohms | PCB Mount | | | View |
| RFI-99-D-AS-50 | BNC | Delrin | 50 ohms | Adapter or Splitter | | | View |
| RFI1-11-T-01-50-G | BNC | Teflon | 50 ohms | 55U / 58 / 58A / 58C / 140U / 141 / 141A / 142U / 223U / 303 | | | View |

## SMA



RF2-01-T-02-50-G



RF2-03-T-00-50-G



RF2-06A-T-02-50-G



RF2-04-T-00-50-G

| PART NUMBER | TYPE | INSULATOR MATERIAL | IMPEDENCE | CABLE TYPE OR APPLICATION | OPTIONS | GENDER | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| RF2-01-T-02-50-G | SMA | Teflon | 50 ohms | 174U/188A/316U | | | View |
| RF2-01-T-07-50-G | SMA | Teflon | 50 ohms | .141 Semi Rigid | | | View |
| RF2-01-T-08-50-G | SMA | Teflon | 50 ohms | .085/.086 Semi Rigid | | | View |
| RF2-01A-02-50-G | SMA | | 50 ohms | 174U/188A/316U | | | View |
| RF2-02-D-02-50 | SMA | Delrin | 50 ohms | 174U/188A/316U | | | View |
| RF2-02-T-01-50-G | SMA | Teflon | 50 ohms | 55U / 58 / 58A / 58C / 140U / 141 / 141A / 142U / 223U / 303 | | | View |
| RF2-02-T-02-50-G | SMA | Teflon | 50 ohms | 174U/188A/316U | | Male | View |
| RF2-02-T-08-50-G | SMA | Teflon | 50 ohms | .085/.086 Semi Rigid | | | View |
| RF2-02-T-21-50-G | SMA | Teflon | 50 ohms | | | | View |
| RF2-02B-T-02-50-G | SMA | Teflon | 50 ohms | 174U/188A/316U | | | View |
| RF2-03-T-00-50 | SMA | Teflon | 50 ohms | PCB Mount | | | View |
| RF2-03-T-00-50-G | SMA | Teflon | 50 ohms | PCB Mount | | | View |
| RF2-03-T-00-50-G-10 | SMA | Teflon | 50 ohms | PCB Mount | | | View |
| RF2-03-T-00-50-G-RP | SMA | Teflon | 50 ohms | 179U/187U | | | View |
| RF2-03-T-00-75-G | SMA | Teflon | 75 ohms | PCB Mount | | | View |
| RF2-03A-T-00-50-G | SMA | Teflon | 50 ohms | PCB Mount | | | View |
| RF2-03B-T-00-50 | SMA | Teflon | 50 ohms | PCB Mount | | | View |
| RF2-03B-T-00-50-G | SMA | Teflon | 50 ohms | PCB Mount | | | View |
| RF2-03B-T-00-50-G-RP | SMA | Teflon | 50 ohms | PCB Mount | | | View |
| RF2-03C-T-00-50-G-RP | SMA | Teflon | 50 ohms | PCB Mount | | | View |
| RF2-03D-T-00-50-G | SMA | Teflon | 50 ohms | PCB Mount | | | View |
| RF2-03E-T-00-50-G | SMA | Teflon | 50 ohms | PCB Mount | | | View |
| RF2-03N-T-00-50-G-RP | SMA | Teflon | 50 ohms | PCB Mount | | Male | View |
| RF2-04-T-00-50-G | SMA | Teflon | 50 ohms | PCB Mount | | | View |
| RF2-04A-T-00-50-G | SMA | | | | | | View |
| RF2-05-T-08-50-G | SMA | Teflon | 50 ohms | PCB Mount | | | View |
| RF2-06-T-02-50-G | SMA | Teflon | 50 ohms | 174U/188A/316U | | Female | View |
| RF2-06A-T-02-50-G | SMA | | | | | | View |
| RF2-06A-T-21-50-G | SMA | | 50 ohms | | | | View |
| RF2-100D-T-00-50-G-HDW-RP | SMA | Teflon | 50 ohms | PCB Mount | | Male | View |
| RF2-143-T-17-50-G | SMA | | 50 ohms | PCB Mount | | Female | View |
| RF2-145A-T-17-50-G-HDW | SMA | | | | | | View |
| RF2-152-T-00-50-G-HDW | SMA | | 50 ohms | PCB Mount | | | View |
| RF2-153-T-02-50-G | SMA | | 50 ohms | | | | View |
| RF2-154-T-17-50-G | SMA | | 50 ohms | | | | View |
| RF2-155-T-00-50-G | SMA | | 50 ohms | | | | View |
| RF2-156-T-00-50-G | SMA | | 50 ohms | | | | View |
| RF2-19A-T-00-50-G | SMA | | 50 ohms | | | | View |
| RF2-44A-T-00-50-G | SMA | | 50 ohms | | | | View |
| RF2-44B-T-00-50-G | SMA | | 50 ohms | | | | View |
| RF2-49B-T-00-50-G-HDW | SMA | | 50 ohms | PCB Mount | | | View |

## MHF

| PART NUMBER | TYPE | INSULATOR MATERIAL | IMPEDENCE | CABLE TYPE OR APPLICATION | OPTIONS | GENDER | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| RF20-01-P-00-50-G | MHF | Polypropylene | 50 ohms | PCB Mount | | | View |

## UHF

| PART NUMBER | TYPE | INSULATOR MATERIAL | IMPEDENCE | CABLE TYPE OR APPLICATION | OPTIONS | GENDER | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| RF9-01-D-01-50 | UHF | Delrin | 50 ohms | | | | View |

## TNC



RF1-07-T-00-75



RF7-01-D-02-50

| PART NUMBER | TYPE | INSULATOR MATERIAL | IMPEDENCE | CABLE TYPE OR APPLICATION | OPTIONS | GENDER | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| RF7-01-D-02-50 | TNC | Delrin | 50 ohms | 174U/188A/316U | | Male | View |
| RF7-08-T-20-50 | TNC | Teflon | 50 ohms | 174U/188A/316U | | Female | View |
| RF7-11-T-02-50 | TNC | Teflon | 50 ohms | | | | View |

## Mini UHF



RF4-02-T-AS-75

| PART NUMBER | TYPE | INSULATOR MATERIAL | IMPEDENCE | CABLE TYPE OR APPLICATION | OPTIONS | GENDER | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| RF13-01-T-00-50 | | Teflon | 50 ohms | PCB Mount | | | View |
| RF13-02-T-AS-50-HDW | | Teflon | 50 ohms | Adapter or Splitter | | | View |
| RF13-03-T-AS-50 | | Teflon | 50 ohms | Adapter or Splitter | | | View |
| RF20-01B-L-00-50-G-T/R | | | | | | | View |
| RF20-10A-L-00-50-G-T/R | | | | | | | View |
| RF4-89-X-05-75 | | | 75 ohms | | | | View |

## FME



RF8-01-T-01-50-G

| PART NUMBER | TYPE | INSULATOR MATERIAL | IMPEDENCE | CABLE TYPE OR APPLICATION | OPTIONS | GENDER | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| RF8-01-T-00-50 | FME | Teflon | 50 ohms | 55U / 58 / 58A / 58C / 140U / 141 / 141A / 142U / 223U / 303 | | Male | View |

## N



RF5-01-D-01-50

| PART NUMBER | TYPE | INSULATOR MATERIAL | IMPEDENCE | CABLE TYPE OR APPLICATION | OPTIONS | GENDER | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| RF5-01-T-01-50 | N | | 50 ohms | 55U / 58 / 58A / 58C / 140U / 141 / 141A / 142U / 223U / 303 | | Male | View |
| RF5-02-D-01-50 | N | Delrin | 50 ohms | 55U / 58 / 58A / 58C / 140U / 141 / 141A / 142U / 223U / 303 | | Female | View |

## F



RF4-01-T-00-75

| PART NUMBER | TYPE | INSULATOR MATERIAL | IMPEDENCE | CABLE TYPE OR APPLICATION | OPTIONS | GENDER | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| RF4-01-T-00-75 | F | Teflon | 75 ohms | PCB Mount | | Female | View |
| RF4-02-D-AS-75 | F | Teflon | 75 ohms | Adapter or Splitter | | Male | View |

## SMB



RF3-04-T-00-50-G



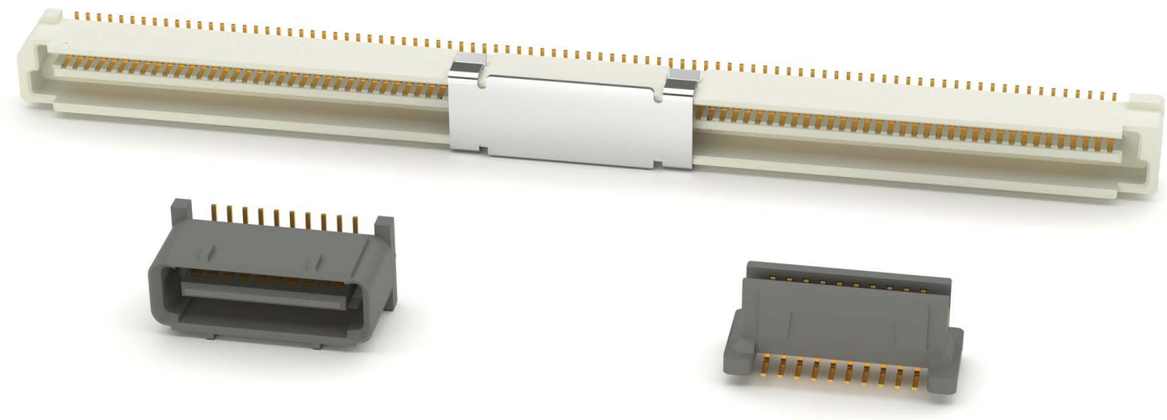
RF3-06-T-00-50-G

| PART NUMBER | TYPE | INSULATOR MATERIAL | IMPEDENCE | CABLE TYPE OR APPLICATION | OPTIONS | GENDER | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| RF3-01-T-01-50-G | SMB | Teflon | 50 ohms | 55U / 58 / 58A / 58C / 140U / 141 / 141A / 142U / 223U / 303 | | Male | View |
| RF3-02-T-08-50-G | SMB | | 50 ohms | | | | View |
| RF3-03-T-03-75-G | SMB | Teflon | 75 ohms | 179U/187U | | Male | View |
| RF3-04-T-00-50-G | SMB | Teflon | 50 ohms | PCB Mount | | Male | View |
| RF3-04A-T-00-50-G | SMB | | | PCB Mount | | | View |
| RF3-05-T-00-50-G | SMB | Teflon | 50 ohms | PCB Mount | | Male | View |
| RF3-06-T-00-50-G | SMB | Teflon | 50 ohms | PCB Mount | | Female | View |
| RF3-15-T-00-50-G | SMB | | 50 ohms | | | Female | View |
| RF3-45-T-00-50-G-HDW | SMB | Teflon | 50 ohms | | | | View |
| RF3-46-T-00-50-G | SMB | | | PCB Mount | | | View |
| RF3-47-T-17-50-G | SMB | | 50 ohms | PCB Mount | | | View |
| RF55-34X-T-02-50-G-SH | SMB | | 50 ohms | | | | View |

# Board to Board & High Speed Board to Board

0.3mm, 0.4mm, 0.5mm, 0.635mm, 0.8mm & 1.00mm MALE & FEMALE SET

Adam Tech manufactures a wide range of application specific board stacking connectors which were designed and built to specific customer requirements. Our experienced staff has developed custom products in a variety of contact styles, pitches and stacking heights. Our designs range from new concepts to duplicating existing market products identically or with improvements. Many designs are produced using automated manufacturing processes to increase reliability and provide significant cost savings.



## FEATURES & SPECIFICATIONS

### FEATURES:
Designed for Multiple board stacking heights
Common pin counts can be tooled
Hi-Temp material designs
High reliability precision formed contact designs

### PACKAGING:
Anti-ESD plastic trays or tubes
Tape and Reel with pick & place pa

### SPECIFICATIONS:

### Material:
Insulator: LCP or Nylon 6T
Contacts: Phosphor Bronze

### Contact Plating:
Tin or Gold flash over copper underplate

### Electrical:
Operating voltage: 50V AC max.
Current rating:
0.5mm: 0.3 Amps max
0.8mm: 0.5 Amps max.
Contact resistance: 40 mΩ max. initial
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

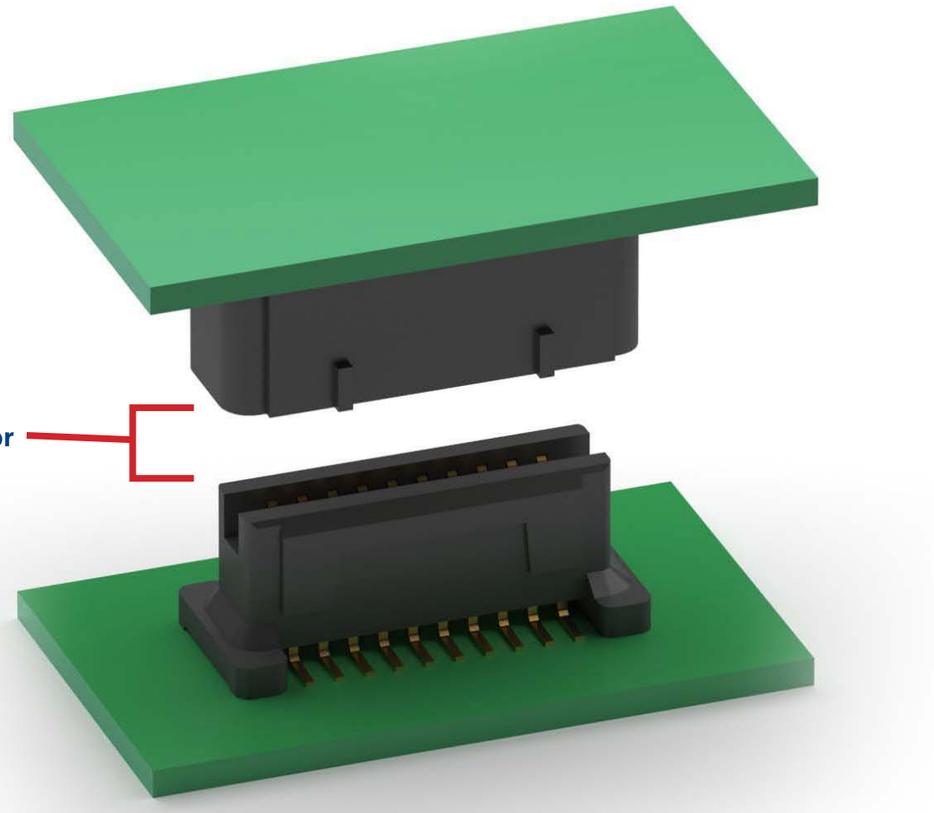
### Mechanical:
Mating durability: 250 Cycles min.

### Temperature Rating:
Operating temperature: -65°C to +155°C

## PART NUMBER CONFIGURATION

| BB5 | - PL | - 060 | - G | - 2.74 | - P |
|---|---|---|---|---|---|
| **PITCH** | **TYPE** | **POSITIONS** | **PLATING** | **HEIGHT** | **OPTIONS** |
| **BB4** = *.016 [0.40]*<br>**BB5** = *.020 [0.50]*<br>**BB8** = *.031 [0.80]*<br>**BB10** = *.039 [1.00]*<br>**BB16** = *.063 [1.60]*<br>**BB35** = *.014 [0.35]*<br>**BB65** = *.026 [0.65]*<br>**BB635** = *.025 [0.635]*<br><br>*HI-SPEED Ground Plane*<br>**BB5H** = *.020 [0.50]*<br>**BB8H** = *.031 [0.80]* | **P** = *PLUG*<br>**S** = *SOCKET* | **02** *thru* **100** | **G** = *Gold plated*<br>**T** = *Tin plated*<br>**SG** = *Gold plating in contact area, Tin Plated solder tails* | **2.74** = *2.74mm* | *Add designator(s) to end of part number*<br>**P** = *Optional peg*<br>**NP** = *No peg*<br>**KT** = *Mylar*<br>**PP** = *Cap*<br>**T/R** = *Tape & Reel packaging* |

**Broad range of stacking height combinations for all applications**



## 0.50mm Centerline

| PART NUMBER | GENDER | CENTERLINE | MOUNTING ORIENTATION | OPTIONS | STACKING & COPLANAR | HIGH SPEED | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| BB5-PN-XXX-G-4.40-NP-PP-TR | Male | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-PN-XXX-G-X.XX-PP-TR | Male | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-POA-XXX-G-XXX-TR | Male | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-PT-XXX-SG-XX.XX-TR | Male | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-PW-XXX-G-0.80-PP-TR | Male | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-PW-XXX-G-X.XX-PP-TR | Male | 0.50mm | Vertical Surface Mount | Peg | | | View |
| BB5-PXI-XXX-G-X.XX-PP-TR | Male | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-S-XX | Female | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-S-XX-1 | Female | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-S3-XX-G | Female | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-SD-XX-G | Female | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-SD-XX-G-NP | Female | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-SE-XX-G-125-TR | Female | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-SL-XXX-G-NP-X.XX-TR | Female | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-SL-XXX-G-X.XX-NP-PP-T/R | Female | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-SL-XXX-G-X.XX-PP-T/R | Female | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-SL-XXX-G-X.XX-TR | Female | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-SM-XXX-G-420-TR | Female | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-SM1-XXX-G-595-KT-TR | Female | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-SN-XXX-G-2.20-NP-PP-TR | Female | 0.50mm | Vertical Surface Mount | No Peg | | | View |
| BB5-SN-XXX-G-3.00-NP-PP-TR | Female | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-SN-XXX-G-X.XX-PP-TR | Female | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-SOA-XXX-G-XXX-TR | Female | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-ST-XXX-SG-XX.XX-PP-TR | Female | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-SW-XXX-G-2.20-PP-TR | Female | 0.50mm | Vertical Surface Mount | | | | View |
| BB5-SW-XXX-G-X.XX-PP-TR | Female | 0.50mm | Vertical Surface Mount | Peg | | | View |
| BB5-SXI-XXX-G-X.XX-PP-TR | Female | 0.50mm | Vertical Surface Mount | | | | View |
| BB5H-PC-XXX-G-4.27-HF-T/R | Male | 0.50mm | Vertical Surface Mount | | | High Speed | View |
| BB5H-SC-XXX-G-2.05-HF-T/R | Female | 0.50mm | Vertical Surface Mount | | | High Speed | View |

## 0.65mm Centerline

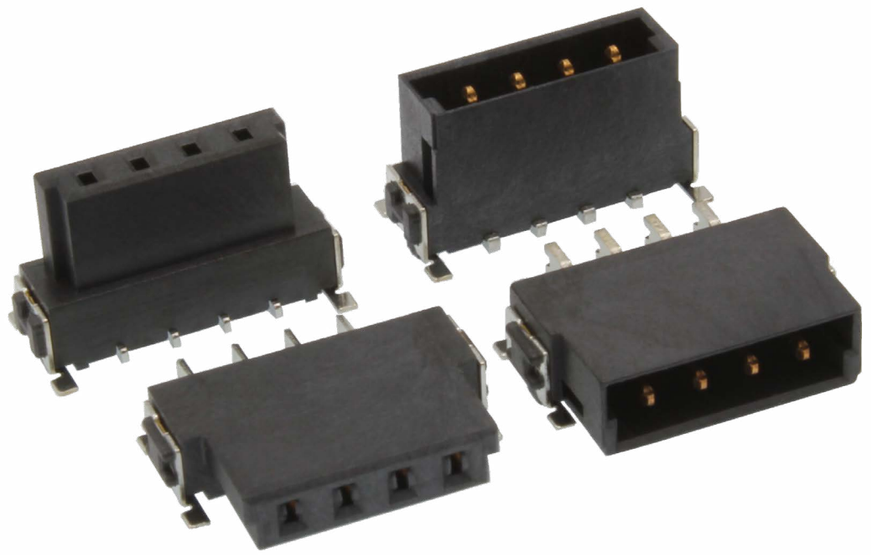
| PART NUMBER | GENDER | CENTERLINE | MOUNTING ORIENTATION | OPTIONS | STACKING & COPLANAR | HIGH SPEED | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| BB65-P-XXX-G | Male | 0.65mm | Vertical Surface Mount | | | | View |
| BB65-S-XXX-G | Female | 0.65mm | Vertical Surface Mount | | | | View |

## 0.80mm Centerline

| PART NUMBER | GENDER | CENTERLINE | MOUNTING ORIENTATION | OPTIONS | STACKING & COPLANAR | HIGH SPEED | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| BB8-P-XX-G | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-P-XX-G-126-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-P-XXX-G | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PA-XXX-G-13.05-PP-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PD-XXX-G-355-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PEA-XX-G-XXX-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PEB-XX-G-360-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PEB-XX-G-480-TR | Male | 0.80mm | Vertical Surface Mount | Peg | | | View |
| BB8-PEB-XX-T-480-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PEC-12-G-585-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PEC-XX-G-585-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PED-XX-G-3.75-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PED-XX-G-7.75-10-KT-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PED-XX-G-7.75-15-KT-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PED-XX-G-7.75-KT-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PED-XX-G-7.75-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PL-XXX-G-3.55-HF-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PL-XXX-G-3.55-PP-HF-T/R | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PN-XXX-G-355-PP-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PN-XXX-G-405 | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PN-XXX-G-405-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PN-XXX-G-X.XX-NP-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PN-XXX-G-X.XX-PP-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PN-XXX-G-X.XX-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PO-XXX-G-X.XX-PP-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PO-XXX-SG-X.XX-PP-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PP-XX-G-2.40-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PP-XX-T-2.40-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PW-XXX-G-X.XX-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-PWA-XX-G-3.55-PP-TR | Male | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-S1-XX-G | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-S5-XX-G-KT-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-S6-XX-SG | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-S6-XXX-SG | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SA-XXX-G-12.35-PP-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SD-XXX-G-350-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SE-XXX-G-655 | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SEA-XX-G-XXX-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SEB-XX-G-330-KT-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SEB-XX-T-330-KT-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SEC-12-G-400-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |

| PART NUMBER | GENDER | CENTERLINE | MOUNTING ORIENTATION | OPTIONS | STACKING & COPLANAR | HIGH SPEED | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| BB8-SEC-XX-G-400-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SED-XX-G-4.40-10-KT-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SED-XX-G-4.40-KT-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SED-XX-G-X.XX-KT-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SED-XX-G-X.XX-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SED-XX-G-XXX-15-KT-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SL-XXX-G-X.XX-HF-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SL-XXX-G-X.XX-PP-HF-T/R | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SN-XXX-G-365-PP-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SN-XXX-G-4.70-RA | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SN-XXX-G-4.70-RA-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SN-XXX-G-565 | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SN-XXX-G-565-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SN-XXX-G-X.XX-NP-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SN-XXX-G-X.XX-PP-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SN-XXX-G-X.XX-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SO-XXX-G-X.XX-PP-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SO-XXX-SG-X.XX-PP-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SP-XX-G-2.40-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SW-XXX-G-X.XX-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SWA-XX-G-X.XX-PP-TR | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8-SX-XXX-G | Female | 0.80mm | Vertical Surface Mount | | | | View |
| BB8H-PC-XXX-G-4.27-HF-T/R | Male | 0.80mm | Vertical Surface Mount | | | High Speed | View |
| BB8H-SC-XXX-G-2.05-HF-T/R | Female | 0.80mm | Vertical Surface Mount | | | High Speed | View |

Adam Tech's ESMC Power Series delivers dependable, high-power board-to-board connectivity in a compact 2.54mm pitch design, engineered for demanding power applications. This stacking and coplanar connector family is available in 2 to 12 positions, with each precision-formed contact supporting up to 24A for stable, high-current transmission. Featuring selective gold plating and a robust terminal structure, the ESMC series ensures excellent conductivity, mechanical strength, and long-term reliability. Flexible parallel, perpendicular, and side-by-side PCB configurations, along with vertical or right angle orientations and SMT or DIP mounting options, simplify layout and integration while supporting efficient automated assembly through plug and socket options, pick-and-place caps, and tape-and-reel packaging



## FEATURES & SPECIFICATIONS

### FEATURES:
Supports high current transmission up to 24A per pin
Robust terminal structure ensures mechanical strength and stable conductivity
Board-to-board connections
.100" [2.54mm] pitch
2-12 positions
Parallel, perpendicular, and side-by-side PCB connection arrangements
High-reliability, precision-formed contact design
High temperature thermoplastic insulator
Operating temperature: -55°C to +125°C
UL certified

### SPECIFICATIONS:

**Material:**
Insulator: High temp thermoplastic, rated UL 94V-0
Insulator color: Black
Contacts: Copper Alloy

**Plating:**
Gold flash over nickel underplate on contact area
Tin over nickel underplate on solder tails

**Electrical:**
Current rating: 24 A max (single contact)
Contact resistance: 10 mΩ max
Insulation resistance: 10,000 MΩ min
Withstanding voltage: 1390 VAC for 1 minute

**Temperature Rating:**
Operating temperature: -55°C to +125°C

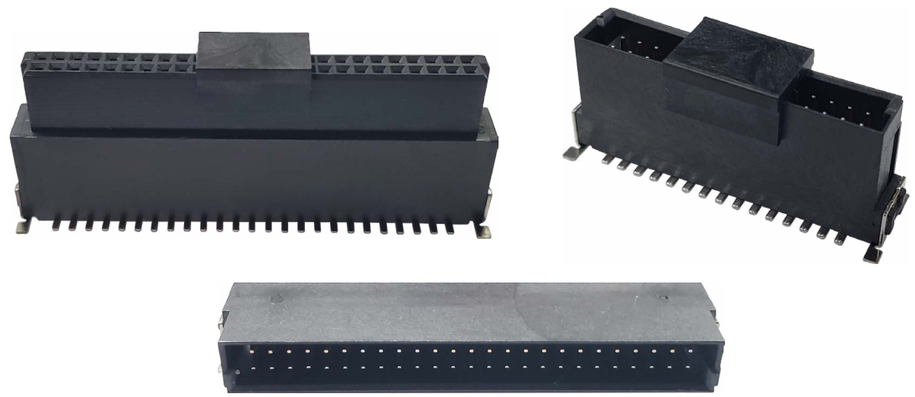
**Environmental:**
Lead free, RoHS compliant

## PART NUMBER CONFIGURATION

| ESMC11 - | 12 - | 2 | 0 | D | 1 |
|---|---|---|---|---|---|
| **SERIES** | **POSITIONS** | **PLATING** | **PLATING THICKNESS** | **ORIENTATION + MOUNTING** | **PACKAGING + OPTIONS** |
| **ESMC11**<br>**ESMC11D**<br>**ESMC12**<br>**ESMC12D**<br>**ESMC13**<br>**ESMC13D**<br>**ESMC14**<br>**ESMC14D** | **2, 3, 4, 5, 6, 12** | **1** = *G*<br>**2** = *SG*<br>**3** = *T*<br>**4** = *MT*<br>**5** = *SGM* | **0** = *Gold flash*<br>**1** = *600 1u" Plated*<br>**2** = *605 5u" Plated*<br>**3** = *615 15u" Plated*<br>**4** = *630 30u" Plated* | **A** = *STR + SMT*<br>**B** = *STR + IDC Type*<br>**C** = *STR + DIP*<br>**D** = *R/A + SMT*<br>**E** = *R/A + IDC Type*<br>**F** = *R/A + DIP* | **1** = *T/R (Tape & Reel)*<br>**2** = *T/R + PP (Tape & Reel + Pick & Place Cap)* |

| PART NUMBER | TYPE | PITCH | CURRENT RATING PER PIN | PIN COUNT | GENDER | ORIENTATION | MOUNTING | LATCHING | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|---|
| ESMC11-XX-20D1 | Power | 2.54mm | 24A | 2-12 | Socket | Right Angle | Surface Mount | N/A | View |
| ESMC11D-XX-20F1 | Power | 2.54mm | 24A | 2-12 | Socket | Right Angle | DIP | N/A | View |
| ESMC12-XX-20A2 | Power | 2.54mm | 24A | 2-12 | Socket | Vertical | Surface Mount | N/A | View |
| ESMC12D-XX-20C2 | Power | 2.54mm | 24A | 2-12 | Socket | Vertical | DIP | N/A | View |
| ESMC13-XX-20D1 | Power | 2.54mm | 24A | 2-12 | Plug | Right Angle | Surface Mount | N/A | View |
| ESMC13D-XX-20F1 | Power | 2.54mm | 24A | 2-12 | Plug | Right Angle | DIP | N/A | View |
| ESMC14-XX-20A2 | Power | 2.54mm | 24A | 2-12 | Plug | Vertical | Surface Mount | N/A | View |
| ESMC14D-XX-20C2 | Power | 2.54mm | 24A | 2-12 | Plug | Vertical | DIP | N/A | View |

Adam Tech's ESMC Signal Series provides dependable, high-performance PCB connectivity in a compact 1.27mm pitch design, engineered for space-constrained applications. This stacking and coplanar connector family supports parallel, perpendicular, and side-by-side board configurations and is available in both vertical and right angle mounting orientations. Vertical options are offered in low, mid, and high profiles to accommodate a wide range of design requirements, with secure mating and connection distances ranging from 0.315" (8.0mm) to 0.728" (18.5mm). In addition to standard board-to-board solutions, this product line includes press-fit connectors, cable assemblies, and custom solutions to support specialized applications. Designed for reliability and flexibility, the ESMC signal series delivers consistent performance across consumer electronics, industrial equipment, and medical devices.



## FEATURES & SPECIFICATIONS

### FEATURES:
.050" [1.27mm] pitch
2-80 positions
Surface mount, IDC, and press-fit mounting
Parallel, perpendicular, and side-by-side PCB connection arrangements
PCB connection distances: .315" [8.0mm] to .728" [18.5mm]
Cable assemblies with various pin count, cable length, configuration, and material options
High reliability precision formed contact design
Angular inclination tolerance (longitudinal: 3.9°, transverse: 2.6°)
High temperature thermoplastic insulator

### SPECIFICATIONS:

**Material:**
Insulator: High temp thermoplastic, rated UL 94V-0
Insulator color: Black
Contacts: Phosphor bronze or high conductivity copper
Board lock: Brass, tin plated

**Plating:**
Gold flash over nickel underplate on contact area
Tin over nickel underplate on solder tails

**Electrical:**
Current rating: 1.2 to 8 A max
Contact resistance: 25 mΩ max
Insulation resistance: 1000 MΩ min
Withstanding voltage: 500 VAC for 1 minute

**Temperature Rating:**
Operating temperature: -55°C to +125°C

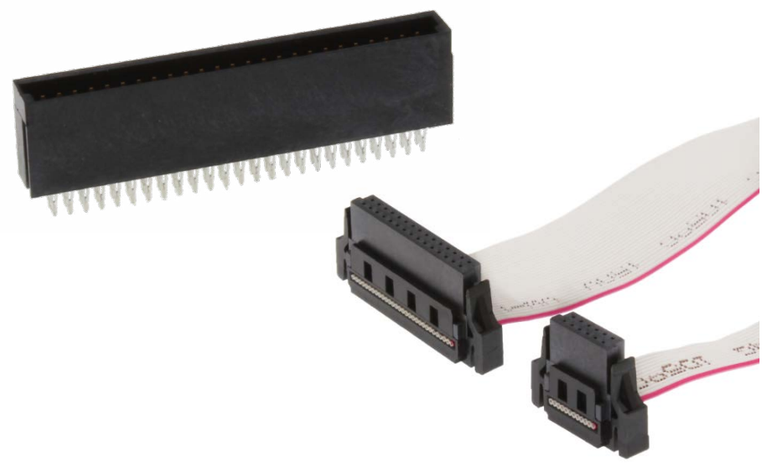
**Environmental:**
Lead free, RoHS compliant

| PART NUMBER | TYPE | PITCH | CURRENT RATING PER PIN | PIN COUNT | GENDER | ORIENTATION | MOUNTING | LATCHING | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|---|
| CA-ESMC-F-F-XX-X-XXXX-X-C1 | Signal | 1.27mm | 0.5A | 2-80 | Socket | Cable Assembly | IDC Cable Mount | Yes | View |
| CA-ESMC1-F-F-20-XXXX-C1A | Signal | 1.27mm | 0.5A | 20 | Socket | Cable Assembly | IDC Cable Mount | Yes | View |
| CA-ESMC1-F-F-XX-XXXX-C1 | Signal | 1.27mm | 1.8A | 2-12 | Socket | Cable Assembly | Solder Cable Mount | Yes | View |
| CA-ESMC1-M-M-XX-XXXX-C1 | Signal | 1.27mm | 2A | 2-12 | Plug | Cable Assembly | Solder Cable Mount | Yes | View |
| ESMC-1-F2-XX-SGR-10.00-SMT-L-TR | Signal | 1.27mm | 1.2A | 2-80 | Socket | Right Angle | Surface Mount | Yes | View |
| ESMC-1-M-XX-SGR-SMT-TR | Signal | 1.27mm | 1.2A | 2-80 | Plug | Right Angle | Surface Mount | Yes | View |
| ESMC-F-XX-SGR-SMT | Signal | 1.27mm | 1.2A | 2-80 | Socket | Right Angle | Surface Mount | N/A | View |
| ESMC-F-XX-SGR-SMT-T/R | Signal | 1.27mm | 1.2A | 2-80 | Socket | Right Angle | Surface Mount | N/A | View |
| ESMC-F-XX-SGS-14.10-IDC-L | Signal | 1.27mm | 1.2A | 2-80 | Socket | Vertical | IDC Cable Mount | Yes | View |
| ESMC-F-XX-SGS-SMT-X-5-PP-TR | Signal | 1.27mm | 1.2A | 2-80 | Socket | Vertical | Surface Mount | N/A | View |
| ESMC-F-XX-SGS-SMT-X-PP | Signal | 1.27mm | 1.2A | 2-80 | Socket | Vertical | Surface Mount | N/A | View |
| ESMC-F-XX-SGS-SMT-X-PP-T/R | Signal | 1.27mm | 1.2A | 2-80 | Socket | Vertical | Surface Mount | N/A | View |
| ESMC-M2-XX-SGS-PF | Signal | 1.27mm | 1.2A | 2-80 | Plug | Vertical | Press-fit | N/A | View |
| ESMC-M-XX-SGR-SMT | Signal | 1.27mm | 1.2A | 2-80 | Plug | Right Angle | Surface Mount | N/A | View |
| ESMC-M-XX-SGR-SMT-T/R | Signal | 1.27mm | 1.2A | 2-80 | Plug | Right Angle | Surface Mount | N/A | View |
| ESMC-M-XX-SGS-SMT-X-PP | Signal | 1.27mm | 1.2A | 2-80 | Plug | Vertical | Surface Mount | N/A | View |
| ESMC-M-XX-SGS-SMT-X-PP-T/R | Signal | 1.27mm | 1.2A | 2-80 | Plug | Vertical | Surface Mount | N/A | View |

## PART NUMBER CONFIGURATION

**ESMC - 1 - M - XX - SGS - X.XX - SMT - A - PP - T/R**

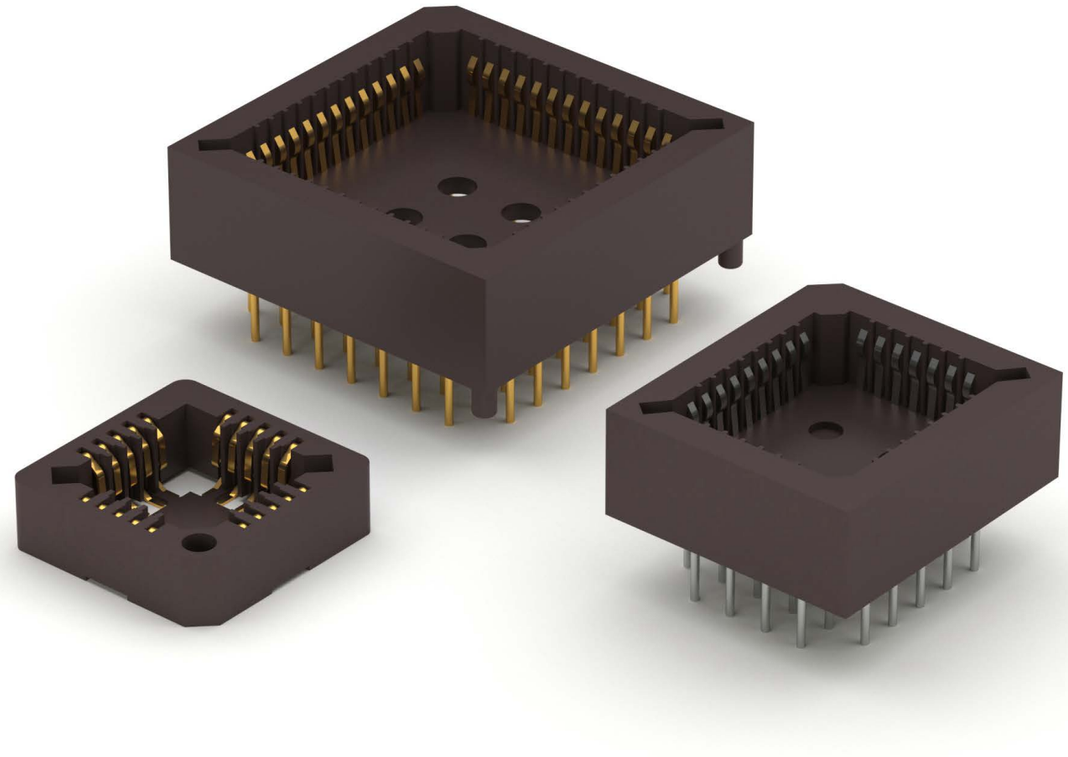
| SERIES | ROWS | GENDER | POSITIONS | PLATING AND ORIENTATION | STANDING HEIGHT | MOUNTING | STACKING HEIGHT | OPTIONS | PACKAGING |
|---|---|---|---|---|---|---|---|---|---|
| **ESMC** | **1** = *Single Row*<br>**BLANK** = *Double Row* | **M** = *Male*<br>**M2** = *Male , Press-fit*<br>**F** = *Female* | **2-80** | **SGS** = *Sel-Gold Plated, Vertical*<br>**SGR** = *Sel-Gold Plated, Right* | *See Drawings* | **SMT** = *Surface Mount Leads with Hi-Temp insulator for Hi-Temp soldering processes up to 260°C*<br>**IDC** = *IDC Type*<br>**PF** = *Press-fit* | **A** = *Short*<br>**B** = *Medium*<br>**C** = *Tall*<br>*(See Drawings)* | **PP** = *Pick & Place Cap*<br>**L** = *Latch* | **T/R** = *Tape & Reel* |



# PLCC Chip Carrier Sockets

PLASTIC LEADED CHIP CARRIER SOCKETS

Adam Tech SMT PLCC Series Sockets are low profile, thin wall sockets designed to convert plastic leaded chips to a thru-hole PCB format on a .100" centerline grid. They conform to JEDEC MS 106 and MS 018 pin count standards. Adam Tech's superior precision stamped contact design provides consistent, high retention contacts for all size chips. Chip exchanges or replacements are easily made with Adam Tech's chip remover part number PLCC-EXT.



## FEATURES & SPECIFICATIONS

### FEATURES:
Full range of sizes from 20P ~ 100P
Consistent, uniform high retention contacts
Compatible with wide range of chip sizes
No solder wicking design
Hi Temp PPS insulator
Open frame design for viewable solder joints

### MATING PLASTIC LEADED CHIPS:
All EIA / JEDEC compliant PLCC

### PACKAGING:
Anti-ESD plastic tubes

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:
### Material:
Standard Hi-Temp insulator: PPS, Glass reinforced, rated UL94V-0
Insulator Color: Brown
Contacts: Phosphor Bronze

### Contact Plating:
Tin over copper underplate overall

### Electrical:
Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 30 mΩ max. initial
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

### Mechanical:
Insertion force:  6.35 oz max.
Withdrawal force: 1.0 oz min

### Temperature Rating:
Operating temperature: -55°C to +105°C
Soldering process temperature: 260°C

## SURFACE MOUNT PART NUMBER CONFIGURATION

**PLCC - 68 - AT - SMT - P**

| SERIES | CONTACTS | PLATING | BODY & CONTACT TYPE | OPTIONS: |
|---|---|---|---|---|
| **PLCC** = *Plastic Leaded Chip Carrier Socket* | **20, 28, 32, 44, 52, 68, 84** | **AT** = *Tin-plated*<br>**AG** = *Gold-plated* | **SMT** = *Low profile body, surface mount leads* | *Add designator(s) to end of part number*<br>**P** = *With polarizing pegs*<br>**T/R** = *Tape and reel packaging* |

## THRU-HOLE PART NUMBER CONFIGURATION

**PLCC - 68 - AT - HT**

| SERIES | CONTACTS | PLATING | OPTIONS: |
|---|---|---|---|
| **PLCC** = *Plastic Leaded Chip Carrier Socket* | **20, 28, 32, 44, 52, 68, 84, 100** | **AT** = *Tin-plated*<br>**AG** = *Gold-plated* | *Add designator(s) to end of part number*<br>**HT** = *Hi-Temp Polyphenylene Sulfide (PPS) Insulator Material for hi-temp soldering process up to 260°C* |

| PART NUMBER | CONTACT POSITIONS | PLATING | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|
| PLCC-100-AT | 100 | Tin | Through Hole | View |
| PLCC-100-AT-SMT | 100 | Tin | Surface Mount | View |
| PLCC-20-AT | 20 | Tin | Through Hole | View |
| PLCC-20-AT-SMT | 20 | Tin | Surface Mount | View |
| PLCC-28-AT | 28 | Tin | Through Hole | View |
| PLCC-32-AT | 32 | Tin | Through Hole | View |
| PLCC-32-AT-SMT | 32 | Tin | Surface Mount | View |
| PLCC-44-AT | 44 | Tin | Through Hole | View |
| PLCC-44-AT-SMT | 44 | Tin | Surface Mount | View |
| PLCC-52-AT | 52 | Tin | Through Hole | View |
| PLCC-52-AT-SMT | 52 | Tin | Surface Mount | View |
| PLCC-68-AT | 68 | Tin | Through Hole | View |
| PLCC-68-AT-SMT | 68 | Tin | Surface Mount | View |
| PLCC-84-AT | 84 | Tin | Through Hole | View |
| PLCC-84-AT-SMT | 84 | Tin | Surface Mount | View |

Adam Tech Terminal Blocks are a full range of wiring blocks, which are commonly used to terminate wire and eliminate splicing. They are offered in five different centerlines with open or closed back option. Each is available for bulkhead or PCB mounting with choice of Straight or Right Angle PCB Terminals, Cliptite and/or Turret Terminals. Our TB series is manufactured from flexible thermoplastic and resists cracking and breaking. Our TD series is manufactured from Hi-Temp Phenolic and as current carrying capability up to 30 Amps.



## FEATURES & SPECIFICATIONS

### FEATURES:
Wide range of sizes and profiles
Choice of open or closed back design
Choice of multiple terminations
Flexible Break resistant Thermoplastic.

### PACKAGING:
Anti-ESD plastic bags

### APPROVALS AND CERTIFICATIONS:
UL Recognized & CSA Certified,
File no. E333935

### SPECIFICATIONS:

**Material:**
Insulator:
TB Series: PBT, rated UL94V-0
TD Series: Phenolic, glass reinforced, rated UL94V-0
Insulator Color: Black
Contacts: Brass, tin plated
Screws: Steel, nickel plated
Hardware: Brass, tin plated

**Electrical:**
Operation voltage: 300V AC max.
Current rating:
TBA / TBB / TDA series: 10 Amps max.
TBC / TBD / TBE / TBF / TBG / TBH series: 15 Amps max.
TDB series: 20 Amps max
TDC series: 30 Amps max
TDD series: 35 Amps max
TDG series: 6 Amps max
TDH series: 15 Amps max
TDJ series: 50 Amps max
Contact resistance: 20MΩ max
Insulation resistance: 500 MΩ min.
Dielectric withstanding voltage: 2000V AC for 1 minute

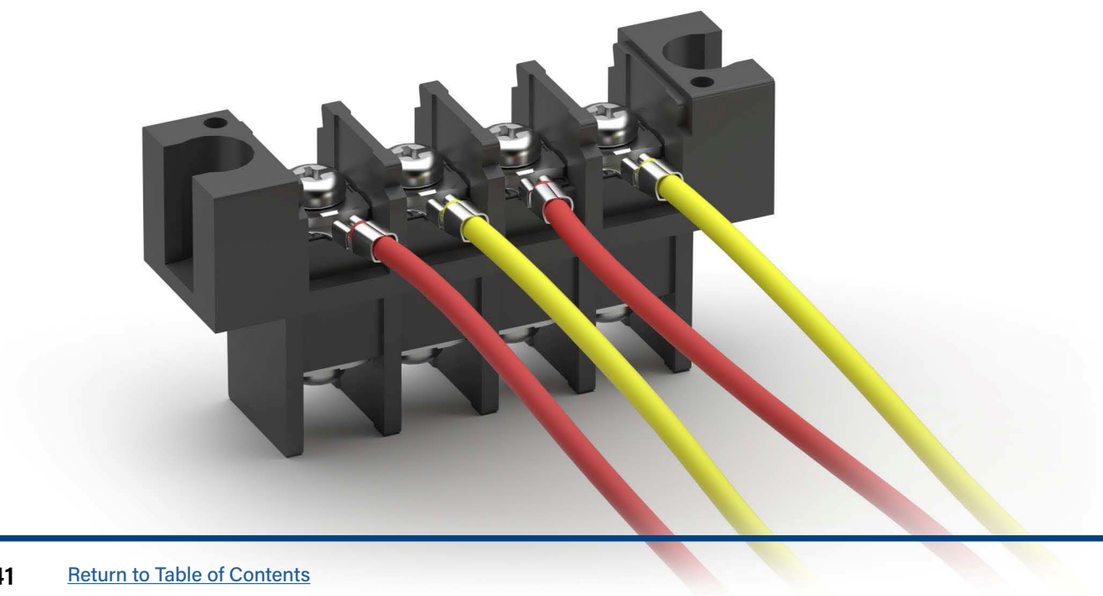
**Mechanical:**
Wire Range:
TBA / TBB Series: 22 – 16 Awg
TBC / TBE Series: 22 – 14 Awg
TBD Series: 22 – 14 Awg
TBF / TBG Series: 22 – 14 Awg
TDA / TDB / TDC Series: 18 - 12 Awg
TDD/TDH Series: 22 – 10 Awg
TDG Series: 22 – 12 Awg
TDJ Series: 16 – 8 Awg

**Temperature Rating:**
Operating temperature: -40°C to +105°C

### TB SERIES PART NUMBER CONFIGURATION

**TBA - 02 - 01 - B**

| SERIES | NO. OF POSITIONS | TERMINAL TYPE | MOUNTING ORIENTATION |
|---|---|---|---|
| **TBA** = *.250" Centerline Barrier Block*<br>**TBB** = *.250" Closed Side Barrier Block*<br>**TBC** = *.325" Centerline Barrier Block (Offset Tails)*<br>**TBD** = *.325" Centerline Barrier Block (Centered Tails)*<br>**TBE** = *.325" Closed Side Barrier Block*<br>**TBF** = *.374" Centerline Barrier Block*<br>**TBG** = *.374" Closed Side Barrier Block*<br>**TBH** = *.325" Centerline Stacked Block* | **02** *Thru* **30** | **01** = *Straight PCB Tail*<br>**02** = *Closed Side Exit PCB Tail*<br>**03** = *Right Angle PCB Tail*<br>**04** = *Cliptite Terminal*<br>**05** = *Turrett Terminal*<br>**06** = *Wire Wrap Terminal* | **B** = *Barrier End*<br>**M** = *Mount End* |



### TD DUAL ROW SERIES PART NUMBER CONFIGURATION

**TDA - 02**

| SERIES | NO. OF POSITIONS |
|---|---|
| **TDA** = *.374" Centerline Dual Row Block*<br>**TDB** = *.433" Centerline Dual Row Block*<br>**TDC** = *.551" Centerline Dual Row Block*<br>**TDD** = *.471" Centerline Dual Row Block*<br>**TDG** = *.315" Centerline Dual Row Block*<br>**TDH** = *.393" Centerline Dual Row Block*<br>**TDJ** = *.571" Centerline Dual Row Block* | **02** *Thru* **56** |

# Terminal Blocks

| PART NUMBER | TYPE | PITCH | ROWS | TERMINALS | BARRIER | MOUNTING | CURRENT RATING | VOLTAGE RATING | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|---|
| TBA-05-01-B | Terminal Block | .250" [6.35mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 10A | 300V | View |
| TBA-05-01-M | Terminal Block | .250" [6.35mm] | Single Row | Straight PCB Tail | Dual Barrier | Mount End | 10A | 300V | View |
| TBA-05-04-B | Terminal Block | .250" [6.35mm] | Single Row | Cliptite Terminals | Dual Barrier | Barrier End | 10A | 300V | View |
| TBA-05-04-M | Terminal Block | .250" [6.35mm] | Single Row | Cliptite Terminals | Dual Barrier | Mount End | 10A | 300V | View |
| TBA-XX-01-B | Terminal Block | .250" [6.35mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 10A | 300V | View |
| TBA-XX-01-M | Terminal Block | .250" [6.35mm] | Single Row | Straight PCB Tail | Dual Barrier | Mount End | 10A | 300V | View |
| TBA-XX-04-B | Terminal Block | .250" [6.35mm] | Single Row | Cliptite Terminals | Dual Barrier | Barrier End | 10A | 300V | View |
| TBA-XX-04-M | Terminal Block | .250" [6.35mm] | Single Row | Cliptite Terminals | Dual Barrier | Mount End | 10A | 300V | View |
| TBA-XX-04-M-V2 | Terminal Block | .250" [6.35mm] | Single Row | Cliptite Terminals | Dual Barrier | Mount End | 10A | 300V | View |
| TBB-03-02-M | Terminal Block | .250" [6.35mm] | Single Row | Closed Side Exit PCB Tail | Tri Barrier | Mount End | 10A | 300V | View |
| TBB-05-01-B | Terminal Block | .250" [6.35mm] | Single Row | Straight PCB Tail | Tri Barrier | Barrier End | 10A | 300V | View |
| TBB-05-02-M | Terminal Block | .250" [6.35mm] | Single Row | Closed Side Exit PCB Tail | Tri Barrier | Mount End | 10A | 300V | View |
| TBB-XX-01-B | Terminal Block | .250" [6.35mm] | Single Row | Straight PCB Tail | Tri Barrier | Barrier End | 10A | 300V | View |
| TBB-XX-03-B | Terminal Block | .250" [6.35mm] | Single Row | Right Angle PCB Tail | Tri Barrier | Barrier End | 10A | 300V | View |
| TBB-XX-03-M | Terminal Block | .250" [6.35mm] | Single Row | Right Angle PCB Tail | Tri Barrier | Mount End | 10A | 300V | View |
| TBB-XX-05-B | Terminal Block | .250" [6.35mm] | Single Row | Turret Terminals | Tri Barrier | Barrier End | 10A | 300V | View |
| TBB-XX-06-B-417-V2 | Terminal Block | .250" [6.35mm] | Single Row | Wire Wrap Terminals | Tri Barrier | Barrier End | 10A | 300V | View |
| TBB-XX-06-M-417-V2 | Terminal Block | .250" [6.35mm] | Single Row | Wire Wrap Terminals | Tri Barrier | Mount End | 10A | 300V | View |
| TBC-03-01-B | Terminal Block | .325" [8.25mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 15A | 300V | View |
| TBC-03-01-M | Terminal Block | .325" [8.25mm] | Single Row | Straight PCB Tail | Dual Barrier | Mount End | 15A | 300V | View |
| TBC-03-06-B | Terminal Block | .325" [8.25mm] | Single Row | Wire Wrap Terminals | Dual Barrier | Barrier End | 15A | 300V | View |
| TBC-03-06-M | Terminal Block | .325" [8.25mm] | Single Row | Wire Wrap Terminals | Dual Barrier | Mount End | 15A | 300V | View |
| TBC-XX-01-B | Terminal Block | .325" [8.25mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 15A | 300V | View |
| TBC-XX-01-M | Terminal Block | .325" [8.25mm] | Single Row | Straight PCB Tail | Dual Barrier | Mount End | 15A | 300V | View |
| TBC-XX-01A-B | Terminal Block | .325" [8.25mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 15A | 300V | View |
| TBC-XX-06-B | Terminal Block | .325" [8.25mm] | Single Row | Wire Wrap Terminals | Dual Barrier | Barrier End | 15A | 300V | View |
| TBC-XX-06-B-11.0 | Terminal Block | .325" [8.25mm] | Single Row | Wire Wrap Terminals | Dual Barrier | Barrier End | 15A | 300V | View |
| TBC-XX-06-M | Terminal Block | .325" [8.25mm] | Single Row | Wire Wrap Terminals | Dual Barrier | Mount End | 15A | 300V | View |
| TBD-03-01-M | Terminal Block | .325" [8.25mm] | Single Row | Straight PCB Tail | Dual Barrier | Mount End | 15A | 300V | View |
| TBD-03-03-B | Terminal Block | .325" [8.25mm] | Single Row | Right Angle PCB Tail | Dual Barrier | Barrier End | 15A | 300V | View |
| TBD-03-03-M | Terminal Block | .325" [8.25mm] | Single Row | Right Angle PCB Tail | Dual Barrier | Mount End | 15A | 300V | View |
| TBD-03-04-B | Terminal Block | .325" [8.25mm] | Single Row | Cliptite Terminals | Dual Barrier | Barrier End | 15A | 300V | View |
| TBD-XX-01-B | Terminal Block | .325" [8.25mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 15A | 300V | View |
| TBD-XX-01-M | Terminal Block | .325" [8.25mm] | Single Row | Straight PCB Tail | Dual Barrier | Mount End | 15A | 300V | View |
| TBD-XX-01-M-NT | Terminal Block | .325" [8.25mm] | Single Row | Straight PCB Tail | Dual Barrier | Mount End | 15A | 300V | View |
| TBD-XX-03-B | Terminal Block | .325" [8.25mm] | Single Row | Right Angle PCB Tail | Dual Barrier | Barrier End | 15A | 300V | View |
| TBD-XX-03-B-V2 | Terminal Block | .325" [8.25mm] | Single Row | Right Angle PCB Tail | Dual Barrier | Barrier End | 15A | 300V | View |
| TBD-XX-03-M | Terminal Block | .325" [8.25mm] | Single Row | Right Angle PCB Tail | Dual Barrier | Mount End | 15A | 300V | View |
| TBD-XX-04-B | Terminal Block | .325" [8.25mm] | Single Row | Cliptite Terminals | Dual Barrier | Barrier End | 15A | 300V | View |
| TBE-03-01-M | Terminal Block | .325" [8.25mm] | Single Row | Straight PCB Tail | Tri Barrier | Mount End | 15A | 300V | View |
| TBE-03-02-M | Terminal Block | .325" [8.25mm] | Single Row | Closed Side Exit PCB Tail | Tri Barrier | Mount End | 15A | 300V | View |

| PART NUMBER | TYPE | PITCH | ROWS | TERMINALS | BARRIER | MOUNTING | CURRENT RATING | VOLTAGE RATING | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|---|
| TBE-05-01-B | Terminal Block | .325" [8.25mm] | Single Row | Straight PCB Tail | Tri Barrier | Barrier End | 15A | 300V | View |
| TBE-05-02-B | Terminal Block | .325" [8.25mm] | Single Row | Closed Side Exit PCB Tail | Tri Barrier | Barrier End | 15A | 300V | View |
| TBE-05-02-M | Terminal Block | .325" [8.25mm] | Single Row | Closed Side Exit PCB Tail | Tri Barrier | Mount End | 15A | 300V | View |
| TBE-05-03-B | Terminal Block | .325" [8.25mm] | Single Row | Right Angle PCB Tail | Tri Barrier | Barrier End | 15A | 300V | View |
| TBE-XX-01-M | Terminal Block | .325" [8.25mm] | Single Row | Straight PCB Tail | Tri Barrier | Mount End | 15A | 300V | View |
| TBE-XX-02-B | Terminal Block | .325" [8.25mm] | Single Row | Closed Side Exit PCB Tail | Tri Barrier | Barrier End | 15A | 300V | View |
| TBE-XX-02-B-A | Terminal Block | .325" [8.25mm] | Single Row | Closed Side Exit PCB Tail | Tri Barrier | Barrier End | 15A | 300V | View |
| TBE-XX-02-M | Terminal Block | .325" [8.25mm] | Single Row | Closed Side Exit PCB Tail | Tri Barrier | Mount End | 15A | 300V | View |
| TBE-XX-03-B | Terminal Block | .325" [8.25mm] | Single Row | Right Angle PCB Tail | Tri Barrier | Barrier End | 15A | 300V | View |
| TBE-XX-06-B | Terminal Block | .325" [8.25mm] | Single Row | Wire Wrap Terminals | Tri Barrier | Barrier End | 15A | 300V | View |
| TBF-02-01-B | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 15A | 300V | View |
| TBF-04-01-B | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 15A | 300V | View |
| TBF-05-01-M | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Dual Barrier | Mount End | 15A | 300V | View |
| TBF-05-03-B | Terminal Block | .374" [9.5mm] | Single Row | Right Angle PCB Tail | Dual Barrier | Barrier End | 15A | 300V | View |
| TBF-05-03-M | Terminal Block | .374" [9.5mm] | Single Row | Right Angle PCB Tail | Dual Barrier | Mount End | 15A | 300V | View |
| TBF-06-01-B | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 15A | 300V | View |
| TBF-XX-00-M | Terminal Block | .374" [9.5mm] | Single Row | No | Dual Barrier | Mount End | 15A | 300V | View |
| TBF-XX-01-B | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 15A | 300V | View |
| TBF-XX-01-B-A | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 15A | 300V | View |
| TBF-XX-01-B-CC | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 15A | 300V | View |
| TBF-XX-01-B-SS | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 15A | 300V | View |
| TBF-XX-01-B-V-CC | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 15A | 300V | View |
| TBF-XX-01-M | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Dual Barrier | Mount End | 15A | 300V | View |
| TBF-XX-01-M-CC | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Dual Barrier | Mount End | 15A | 300V | View |
| TBF-XX-03-B | Terminal Block | .374" [9.5mm] | Single Row | Right Angle PCB Tail | Dual Barrier | Barrier End | 15A | 300V | View |
| TBF-XX-03-M | Terminal Block | .374" [9.5mm] | Single Row | Right Angle PCB Tail | Dual Barrier | Mount End | 15A | 300V | View |
| TBF-XX-04-M | Terminal Block | .374" [9.5mm] | Single Row | Cliptite Terminals | Dual Barrier | Mount End | 15A | 300V | View |
| TBF-XX-05-M-WB | Terminal Block | .374" [9.5mm] | Single Row | Turret Terminals | Dual Barrier | Mount End | 15A | 300V | View |
| TBF-XX-06-B | Terminal Block | .374" [9.5mm] | Single Row | Wire Wrap Terminals | Dual Barrier | Barrier End | 15A | 300V | View |
| TBF-XX-06-M | Terminal Block | .374" [9.5mm] | Single Row | Wire Wrap Terminals | Dual Barrier | Mount End | 15A | 300V | View |
| TBF-XX-07-M-NT | Terminal Block | .374" [9.5mm] | Single Row | No | Dual Barrier | Mount End | 15A | 300V | View |
| TBFA-XX-01-B | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 15A | 300V | View |
| TBFA-XX-05-M | Terminal Block | .374" [9.5mm] | Single Row | Turret Terminals | Dual Barrier | Mount End | 15A | 300V | View |
| TBFA-XX-05-M-CC | Terminal Block | .374" [9.5mm] | Single Row | Turret Terminals | Dual Barrier | Mount End | 15A | 300V | View |
| TBG-03-01-B-HC | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Tri Barrier | Barrier End | 15A | 300V | View |
| TBG-03-01-M | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Tri Barrier | Mount End | 15A | 300V | View |
| TBG-05-01-B | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Tri Barrier | Barrier End | 15A | 300V | View |
| TBG-05-02-B | Terminal Block | .374" [9.5mm] | Single Row | Closed Side Exit PCB Tail | Tri Barrier | Barrier End | 15A | 300V | View |
| TBG-05-03-B | Terminal Block | .374" [9.5mm] | Single Row | Right Angle PCB Tail | Tri Barrier | Barrier End | 15A | 300V | View |

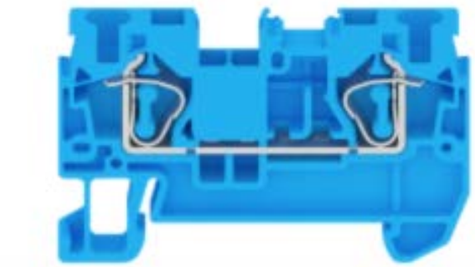
# Terminal Blocks

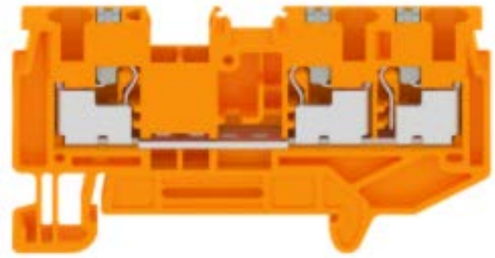
| PART NUMBER | TYPE | PITCH | ROWS | TERMINALS | BARRIER | MOUNTING | CURRENT RATING | VOLTAGE RATING | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|---|
| TBG-06-06-B | Terminal Block | .374" [9.5mm] | Single Row | Wire Wrap Terminals | Tri Barrier | Barrier End | 15A | 300V | View |
| TBG-XX-01-B | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Tri Barrier | Barrier End | 15A | 300V | View |
| TBG-XX-01-B-HC | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Tri Barrier | Barrier End | 15A | 300V | View |
| TBG-XX-01-B-OC-NC | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Tri Barrier | Barrier End | 15A | 300V | View |
| TBG-XX-01-M | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Tri Barrier | Mount End | 15A | 300V | View |
| TBG-XX-02-B | Terminal Block | .374" [9.5mm] | Single Row | Closed Side Exit PCB Tail | Tri Barrier | Barrier End | 15A | 300V | View |
| TBG-XX-03-B | Terminal Block | .374" [9.5mm] | Single Row | Right Angle PCB Tail | Tri Barrier | Barrier End | 15A | 300V | View |
| TBG-XX-05-B | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Tri Barrier | Barrier End | 15A | 300V | View |
| TBG-XX-06-0T-M | Terminal Block | .374" [9.5mm] | Single Row | Wire Wrap Terminals | Tri Barrier | Mount End | 15A | 300V | View |
| TBGA-XX-01-B-HC | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Tri Barrier | Barrier End | 20A | 300V | View |
| TBGB-XX-01-M-MP | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Tri Barrier | Mount End | 15A | 250V | View |
| TBGC-XX-01-B | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Tri Barrier | Barrier End | 25A | 300V | View |
| TBGD-XX-01-B | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Tri Barrier | Barrier End | 30A | 300V | View |
| TBH-16-01-B-375 | Terminal Block | .325" [8.25mm] | Dual Row | Straight PCB Tail | Dual Barrier | Barrier End | 20A | 300V | View |
| TBH-24-01-B | Terminal Block | .325" [8.25mm] | Dual Row | Straight PCB Tail | Dual Barrier | Barrier End | 20A | 300V | View |
| TBH-XX-01-B | Terminal Block | .325" [8.25mm] | Dual Row | Straight PCB Tail | Dual Barrier | Barrier End | 20A | 300V | View |
| TBH-XX-01-B-375 | Terminal Block | .325" [8.25mm] | Dual Row | Straight PCB Tail | Dual Barrier | Barrier End | 20A | 300V | View |
| TBI-08-381-CM1 | Terminal Block | IDC | Single Row | Straight PCB Tail | - | Barrier End | 15A | 250V | View |
| TBK-08-01-B | Terminal Block | .394" [10.0mm] | Single Row | Straight PCB Tail | Tri Barrier | Barrier End | 25A | 600V | View |
| TBM-09-01-B-01 | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Tri Barrier | Barrier End | 15A | 300V | View |
| TBM-XX-01-B | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Tri Barrier | Barrier End | 15A | 300V | View |
| TBN-08-03-M | Terminal Block | .433" [11.0mm] | Single Row | Straight PCB Tail | Dual Barrier | Mount End | 30A | 300V | View |
| TBN-09-01-B-BS | Terminal Block | .433" [11.0mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 30A | 300V | View |
| TBN-XX-01-B | Terminal Block | .433" [11.0mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 30A | 300V | View |
| TBN-XX-01-B-CC | Terminal Block | .433" [11.0mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 30A | 300V | View |
| TBN-XX-01-M | Terminal Block | .433" [11.0mm] | Single Row | Straight PCB Tail | Dual Barrier | Mount End | 30A | 300V | View |
| TBN-XX-01-M-WB | Terminal Block | .433" [11.0mm] | Single Row | Straight PCB Tail | Dual Barrier | Mount End | 30A | 300V | View |
| TBN-XX-01D-B | Terminal Block | .433" [11.0mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 30A | 300V | View |
| TBN-XX-03-B | Terminal Block | .433" [11.0mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 30A | 300V | View |
| TBN-XX-03-B-CC | Terminal Block | .433" [11.0mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 30A | 300V | View |
| TBN-XX-04-M | Terminal Block | .433" [11.0mm] | Single Row | Straight PCB Tail | Dual Barrier | Mount End | 30A | 300V | View |
| TBN-XX-04-M-WB | Terminal Block | .433" [11.0mm] | Single Row | Straight PCB Tail | Dual Barrier | Mount End | 30A | 300V | View |
| TBN-XX-05-M | Terminal Block | .433" [11.0mm] | Single Row | Straight PCB Tail | Dual Barrier | Mount End | 30A | 300V | View |
| TBNA-XX-01-B | Terminal Block | .433" [11.0mm] | Single Row | Straight PCB Tail | Dual Barrier | Mount End | 30A | 300V | View |
| TBP-XX-01-B | Terminal Block | .300" [7.62mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 30A | 300V | View |
| TBP-XX-01-B-01 | Terminal Block | .300" [7.62mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 30A | 300V | View |
| TBP-XX-01-B-02 | Terminal Block | .300" [7.62mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 30A | 300V | View |
| TBP-XX-01-B-MOD | Terminal Block | .300" [7.62mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 30A | 300V | View |
| TBP-XX-01-B-MOD-C1 | Terminal Block | .300" [7.62mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 30A | 300V | View |
| TBP-XX-05-B-DT | Terminal Block | .300" [7.62mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 30A | 300V | View |
| TBR-XX-00-M-SPH | Terminal Block | .325" [8.25mm] | Single Row | No | Dual Barrier | Mount End | 30A | 600V | View |
| TBR-XX-01-B-V | Terminal Block | .325" [8.25mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 20A | 300V | View |

| PART NUMBER | TYPE | PITCH | ROWS | TERMINALS | BARRIER | MOUNTING | CURRENT RATING | VOLTAGE RATING | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|---|
| TBR-XX-01-B-V-CC | Terminal Block | .325" [8.25mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 20A | 300V | View |
| TBR-XX-03-B-COV | Terminal Block | .325" [8.25mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 20A | 300V | View |
| TBRA-XX-01-B | Terminal Block | .325" [8.25mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 20A | 300V | View |
| TBRA-XX-01-B-RA | Terminal Block | .325" [8.25mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 20A | 300V | View |
| TBS-XX-01-B | Terminal Block | .300" [7.62mm] | Dual Row | Straight PCB Tail | Tri Barrier | Barrier End | 15A | 300V | View |
| TBS-XX-01-B-ZINC | Terminal Block | .300" [7.62mm] | Dual Row | Straight PCB Tail | Tri Barrier | Barrier End | 15A | 300V | View |
| TBS-XX-01-B-ZINC-HW | Terminal Block | .300" [7.62mm] | Dual Row | Straight PCB Tail | Tri Barrier | Barrier End | 15A | 300V | View |
| TBT-XX-01-M-CC | Terminal Block | .630" [16.0mm] | Single Row | Straight PCB Tail | Dual Barrier | Mount End | 65A | 600V | View |
| TBU-XX | Terminal Block | .630" [16.0mm] | Dual Row | No | Dual Barrier | Mount End | 75A | 600V | View |
| TBU-XX-A | Terminal Block | .630" [16.0mm] | Dual Row | No | Dual Barrier | Mount End | 65A | 600V | View |
| TBU-XX-W1 | Terminal Block | .433" [11.0mm] | Dual Row | No | Dual Barrier | Mount End | 30A | 300V | View |
| TBU-XX-W2 | Terminal Block | .512" [13.0mm] | Dual Row | No | Dual Barrier | Mount End | 50A | 600V | View |
| TBU-XX-W3-CC | Terminal Block | .630" [16.0mm] | Dual Row | No | Dual Barrier | Mount End | 65A | 600V | View |
| TBU-XX-W3-CCS | Terminal Block | .630" [16.0mm] | Dual Row | No | Dual Barrier | Mount End | 65A | 600V | View |
| TBU-XX-W4-CCS | Terminal Block | .826" [21.0mm] | Dual Row | No | Dual Barrier | Mount End | 115A | 600V | View |
| TBW-XX-02-B | Terminal Block | .512" [13.0mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 40A | 600V | View |
| TBW-XX-02-B-COV | Terminal Block | .512" [13.0mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 40A | 600V | View |
| TBY-XX-01-B | Terminal Block | .374" [9.5mm] | Single Row | Straight PCB Tail | Dual Barrier | Barrier End | 15A | 300V | View |
| TBZ-XX-01-B | Terminal Block | .500" [12.7mm] | Single Row | Straight PCB Tail | Tri Barrier | Barrier End | 45A | 600V | View |
| TDA-03 | Terminal Block | .374" [9.5mm] | Dual Row | No | Isolated | Chassis | 10A | 300V | View |
| TDA-XX | Terminal Block | .374" [9.5mm] | Dual Row | No | Isolated | Chassis | 10A | 300V | View |
| TDA-XX-SQ | Terminal Block | .374" [9.5mm] | Dual Row | No | Isolated | Chassis | 10A | 250V | View |
| TDB-04 | Terminal Block | .433" [11.0mm] | Dual Row | No | Isolated | Chassis | 25A | 300V | View |
| TDB-XX | Terminal Block | .433" [11.0mm] | Dual Row | No | Isolated | Chassis | 25A | 300V | View |
| TDB-XX-HB | Terminal Block | .433" [11.0mm] | Dual Row | No | Isolated | Chassis | 25A | 300V | View |
| TDC-04 | Terminal Block | .551" [14.0mm] | Dual Row | No | Isolated | Chassis | 30A | 300V | View |
| TDC-XX | Terminal Block | .472" [12.0mm] | Dual Row | No | Isolated | Chassis | 30A | 300V | View |
| TDK-XX-FH | Terminal Block | .394" [10.0mm] | Dual Row | No | Isolated | Chassis | 15A | 300V | View |
| TDKA-XX-FH1 | Terminal Block | .394" [10.0mm] | Dual Row | No | Isolated | Chassis | 15A | 300V | View |
| TDM-XX | Terminal Block | 1.114" [28.3mm] | Dual Row | No | Isolated | Chassis | 150A | 600V | View |
| TDN-XX-WP | Terminal Block | .531" [13.5mm] | Dual Row | No | Isolated | Chassis | 15A | 300V | View |

# DIN Rail Terminal Blocks

Adam Tech's REB Series DIN Rail Terminal Blocks offer a reliable and safe solution for connecting conductors to DIN rails. Available in spring cage, push-in, and micro spring cage configurations, this versatile series offers a range of cross sectional area wire ranges, colors, and other options to meet the needs of various applications. Compatible rails and protective covers/caps are also available, with the covers/caps providing additional insulation to protect the terminal blocks from damage.







## FEATURES & SPECIFICATIONS

### FEATURES:
Allows for safe and reliable wire connections
Current range: 15A to 65A
Voltage: 300 or 600V
Various cross sectional area wire
Color options: blue, gray, green/yellow, and orange
Compatible end covers/caps and rails/tracks available

### SPECIFICATIONS:

### Material:
Insulator: PA66, rated UL94V-0
Contact: Copper alloy, tin plated

### Electrical:
Voltage rating: 300/600V
Current rating range: 15-65A
Dielectric withstanding voltage: 1600/2200VAC for 1 minute

### Temperature Rating:
Operating temperature range: -40°C to +105°C

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. XCFR2.E333935 and XCFR8. E333935

## SPRING CAGE & PUSH-IN PART NUMBER CONFIGURATION

| REB - A | 4 | A | - XX |
|---|---|---|---|
| SERIES | BODY STYLE | NUMBER OF HOLES | CROSS SECTIONAL AREA WIRE RANGE | INSULATOR COLOR |
| **REB** = *Railway Terminal* | **A** = *Spring Cage*<br>**B** = *Push-In* | **2**<br>**3**<br>**4**<br>**see drawings for more details* | **A** = *Solid/Stranded: 24~16 AWG, 0.2~1.5mm²*<br>**B** = *Solid: 24~12 AWG, 0.2~4.0mm² / Stranded: 24~14 AWG, 0.2~2.5m²*<br>**C** = *Solid: 24~10 AWG, 0.2~6.0mm² / Stranded: 24~12 AWG, 0.2~4.0mm²*<br>**D** = *Solid: 24~8 AWG, 0.2~10.0mm² / Stranded: 24~10 AWG, 0.2~6.0mm²*<br>**E** = *Solid: 24~6 AWG, 0.2~16.0mm² / Stranded: 24~8 AWG, 0.2~10.0mm²*<br>**see drawings for more details* | **BU** = *Blue*<br>**OR** = *Orange*<br>**GY** = *Gray*<br>**YG** = *Yellow/ Green* |

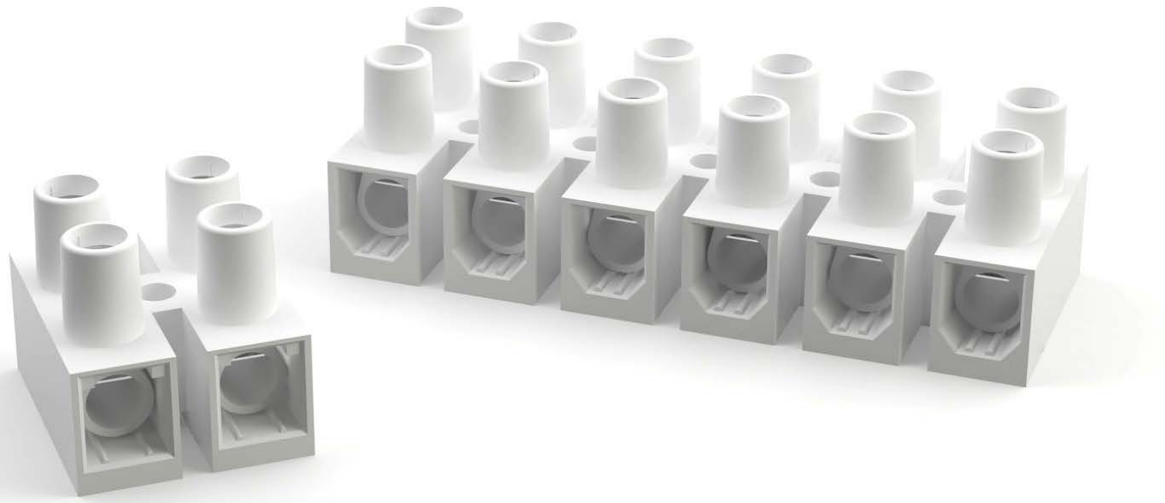
## MICRO CAGE PART NUMBER CONFIGURATION

| REB - XX - C | A | A - 001 |
|---|---|---|
| SERIES | PIN | BODY STYLE | CROSS SECTIONAL AREA WIRE RANGE | PITCH | SERIAL NUMBER |
| **REB** = *Railway Terminal* | **XX** = *Pin* | **C** = *Micro Cage* | **A** = *Solid/Stranded: 28~16 AWG, 0.2~1.5mm²*<br>**B** = *Solid/Stranded: 28~14 AWG, 0.2~2.5mm²*<br>**C** = *Solid/Stranded: 28~12 AWG, 0.2~4.0mm²*<br>**see drawings for more details* | **A** = *.197 [5.00mm]*<br>**B** = *.236 [6.00mm]*<br>**C** = *.276 [7.00mm]*<br>**D** = *.315 [8.00mm]*<br>**E** = *.394 [10.00mm]*<br>**F** = *.472 [12.00mm]* | |

| PART NUMBER | PRODUCT | TYPE | NUMBER OF HOLES | SOLID (CROSS SECTIONAL WIRE RANGE) | STRANDED (CROSS SECTIONAL WIRE RANGE) | STRIPPED LENGTH | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| REB-A2A-XX | Terminal Block | Spring Cage | 2 | 24~16 AWG / 0.2~1.5mm² | 24~16 AWG / 0.2~1.5mm² | .315"~.394" (8-10mm) | View |
| REB-A2B-XX | Terminal Block | Spring Cage | 2 | 24~12 AWG / 0.2~4.0mm² | 24~14 AWG / 0.2~2.5mm² | .315"~.394" (8-10mm) | View |
| REB-A2C-XX | Terminal Block | Spring Cage | 2 | 24~10 AWG / 0.2~6.0mm² | 24~12 AWG / 0.2~4.0mm² | .315"~.394" (8-10mm) | View |
| REB-A2D-CAP | Cap | Spring Cage | 2 | N/A | N/A | N/A | View |
| REB-A2D-XX | Terminal Block | Spring Cage | 2 | 24~8 AWG / 0.2~10.0mm² | 24~10 AWG / 0.2~6.0mm² | .472" (12mm) | View |
| REB-A2E-CAP | Cap | Spring Cage | 2 | N/A | N/A | N/A | View |
| REB-A2E-XX | Terminal Block | Spring Cage | 2 | 24~6 AWG / 0.2~16.0mm² | 24~8 AWG / 0.2~10.0mm² | .709" (18mm) | View |
| REB-A3A-XX | Terminal Block | Spring Cage | 3 | 24~16 AWG / 0.2~1.5mm² | 24~16 AWG / 0.2~1.5mm² | .315"~.394" (8-10mm) | View |
| REB-A3B-XX | Terminal Block | Spring Cage | 3 | 24~12 AWG / 0.2~4.0mm² | 24~14 AWG / 0.2~2.5mm² | .315"~.394" (8-10mm) | View |
| REB-A3C-CAP | Cap | Spring Cage | 3 | N/A | N/A | N/A | View |
| REB-A3C-XX | Terminal Block | Spring Cage | 3 | 24~10 AWG / 0.2~6.0mm² | 24~12 AWG / 0.2~4.0mm² | .315"~.394" (8-10mm) | View |
| REB-A3D-CAP | Cap | Spring Cage | 3 | N/A | N/A | N/A | View |
| REB-A3D-XX | Terminal Block | Spring Cage | 3 | 24~8 AWG / 0.2~10.0mm² | 24~10 AWG / 0.2~6.0mm² | .472" (12mm) | View |
| REB-A3E-CAP | Cap | Spring Cage | 3 | N/A | N/A | N/A | View |
| REB-A3E-XX | Terminal Block | Spring Cage | 3 | 24~6 AWG / 0.2~16.0mm² | 24~8 AWG / 0.2~10.0mm² | .709" (18mm) | View |
| REB-A4A-XX | Terminal Block | Spring Cage | 4 | 24~16 AWG / 0.2~1.5mm² | 24~16 AWG / 0.2~1.5mm² | .315"~.394" (8-10mm) | View |
| REB-A4B-XX | Terminal Block | Spring Cage | 4 | 24~12 AWG / 0.2~4.0mm² | 24~14 AWG / 0.2~2.5mm² | .315"~.394" (8-10mm) | View |
| REB-A4C-CAP | Cap | Spring Cage | 4 | N/A | N/A | N/A | View |
| REB-A4C-XX | Terminal Block | Spring Cage | 4 | 24~10 AWG / 0.2~6.0mm² | 24~12 AWG / 0.2~4.0mm² | .315"~.394" (8-10mm) | View |
| REB-B2A-CAP | Cap | Push-In | 2 | N/A | N/A | N/A | View |
| REB-B2A-XX | Terminal Block | Push-In | 2 | 24~16 AWG / 0.2~1.5mm² | 24~16 AWG / 0.2~1.5mm² | .315"~.394" (8-10mm) | View |
| REB-B2B-CAP | Cap | Push-In | 2 | N/A | N/A | N/A | View |
| REB-B2B-XX | Terminal Block | Push-In | 2 | 24~12 AWG / 0.2~4.0mm² | 24~14 AWG / 0.2~2.5mm² | .315"~.394" (8-10mm) | View |
| REB-B2C-CAP | Cap | Push-In | 2 | N/A | N/A | N/A | View |
| REB-B2C-XX | Terminal Block | Push-In | 2 | 24~10 AWG / 0.2~6.0mm² | 24~12 AWG / 0.2~4.0mm² | .394"~.472" (10-12mm) | View |
| REB-B2D-CAP | Cap | Push-In | 2 | N/A | N/A | N/A | View |
| REB-B2D-XX | Terminal Block | Push-In | 2 | 20~8 AWG / 0.5~10.0mm² | 20~10 AWG / 0.5~6.0mm² | .394"~.472" (10-12mm) | View |
| REB-B2E-CAP | Cap | Push-In | 2 | N/A | N/A | N/A | View |
| REB-B2E-XX | Terminal Block | Push-In | 2 | 20~6 AWG / 0.5~16.0mm² | 20~8 AWG / 0.5~10.0mm² | .709" (18mm) | View |
| REB-B3A-CAP | Cap | Push-In | 3 | N/A | N/A | N/A | View |
| REB-B3A-XX | Terminal Block | Push-In | 3 | 24~16 AWG / 0.2~1.5mm² | 24~16 AWG / 0.2~1.5mm² | .315"~.394" (8-10mm) | View |
| REB-B3B-CAP | Cap | Push-In | 3 | N/A | N/A | N/A | View |
| REB-B3B-XX | Terminal Block | Push-In | 3 | 24~12 AWG / 0.2~4.0mm² | 24~14 AWG / 0.2~2.5mm² | .315"~.394" (8-10mm) | View |
| REB-B3C-CAP | Cap | Push-In | 3 | N/A | N/A | N/A | View |
| REB-B3C-XX | Terminal Block | Push-In | 3 | 24~10 AWG / 0.2~6.0mm² | 24~12 AWG / 0.2~4.0mm² | .394"~.472" (10-12mm) | View |
| REB-B3D-CAP | Cap | Push-In | 3 | N/A | N/A | N/A | View |
| REB-B3D-XX | Terminal Block | Push-In | 3 | 20~8 AWG / 0.5~10.0mm² | 20~10 AWG / 0.5~6.0mm² | .394"~.472" (10-12mm) | View |
| REB-B3E-CAP | Cap | Push-In | 3 | N/A | N/A | N/A | View |
| REB-B3E-XX | Terminal Block | Push-In | 3 | 20~6 AWG / 0.5~16.0mm² | 20~8 AWG / 0.5~10.0mm² | .709" (18mm) | View |
| REB-B4A-CAP | Cap | Push-In | 4 | N/A | N/A | N/A | View |
| REB-B4A-XX | Terminal Block | Push-In | 4 | 24~16 AWG / 0.2~1.5mm² | 24~16 AWG / 0.2~1.5mm² | .315"~.394" (8-10mm) | View |
| REB-B4B-CAP | Cap | Push-In | 4 | N/A | N/A | N/A | View |
| REB-B4B-XX | Terminal Block | Push-In | 4 | 24~12 AWG / 0.2~4.0mm² | 24~14 AWG / 0.2~2.5mm² | .315"~.394" (8-10mm) | View |
| REB-B4C-CAP | Cap | Push-In | 4 | N/A | N/A | N/A | View |
| REB-B4C-XX | Terminal Block | Push-In | 4 | 24~10 AWG / 0.2~6.0mm² | 24~12 AWG / 0.2~4.0mm² | .394"~.472" (10-12mm) | View |
| REB-B4D-CAP | Cap | Push-In | 4 | N/A | N/A | N/A | View |
| REB-B4D-XX | Terminal Block | Push-In | 4 | 20~8 AWG / 0.5~10.0mm² | 20~10 AWG / 0.5~6.0mm² | .394"~.472" (10-12mm) | View |
| REB-DF-XXX-00X | Rail | N/A | N/A | N/A | N/A | N/A | View |
| REB-DF1-XXX-00X | Rail | N/A | N/A | N/A | N/A | N/A | View |

# Europa Strips

Adam Tech Europa Strips are a full range of wiring blocks, which are commonly used to terminate wire and eliminate splicing. They are offered in five different centerlines with open or closed back option. Each is available for bulkhead or PCB mounting with choice of Straight or Right Angle PCB Terminals, Cliptite and/or Turret Terminals. Our TB series is manufactured from flexible thermoplastic and resists cracking and breaking. Our TD series is manufactured from Hi-Temp Phenolic and as current carrying capability up to 30 Amps.



## FEATURES & SPECIFICATIONS

### FEATURES:
Wide range of sizes and profiles
Choice of open or closed back design
Choice of multiple terminations
Flexible Break resistant Thermoplastic.

### PACKAGING:
Anti-ESD plastic bags

### APPROVALS AND CERTIFICATIONS:
UL Recognized & CSA Certified,
File no. E333935

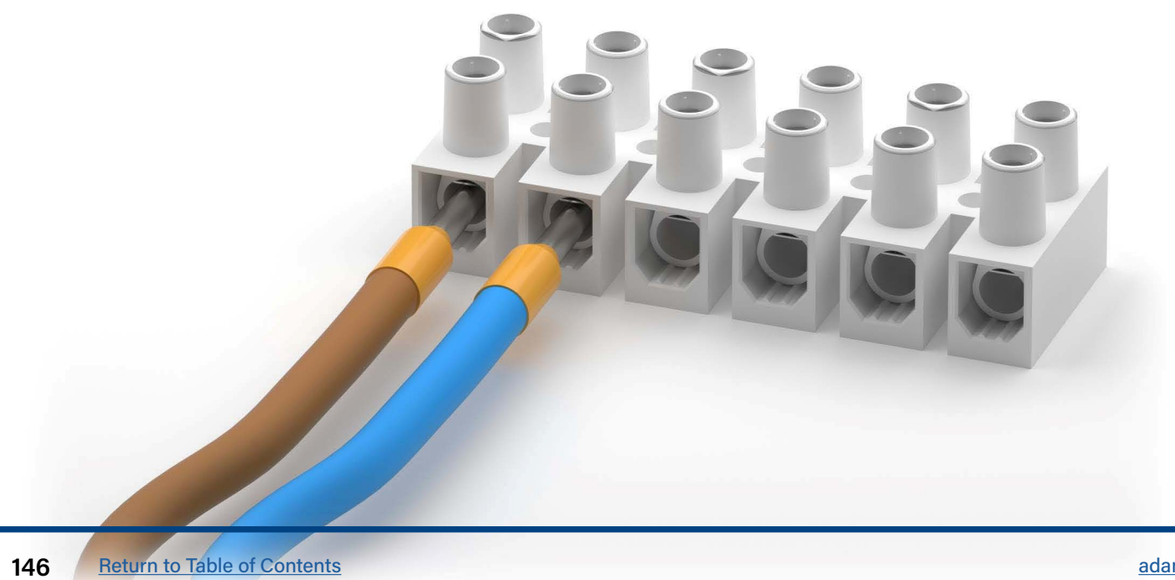
### SPECIFICATIONS:

### Material:
Insulator:
TB Series: PBT, rated UL94V-0
TD Series: Phenolic, glass reinforced, rated UL94V-0
Insulator Color: Black
Contacts: Brass, tin plated
Screws: Steel, nickel plated
Hardware: Brass, tin plated

### Electrical:
Operation voltage: 300V AC max.
Current rating:
TBA / TBB / TDA series: 10 Amps max.
TBC / TBD / TBE / TBF / TBG / TBH series: 15 Amps max.
TDB series: 20 Amps max
TDC series: 30 Amps max
TDD series: 35 Amps max
TDG series: 6 Amps max
TDH series: 15 Amps max
TDJ series: 50 Amps max
Contact resistance: 20MΩ max
Insulation resistance: 500 MΩ min.
Dielectric withstanding voltage: 2000V AC for 1 minute

### Mechanical:
Wire Range:
TBA / TBB Series: 22 – 16 Awg
TBC / TBE Series: 22 – 14 Awg
TBD Series: 22 – 14 Awg
TBF / TBG Series: 22 – 14 Awg
TDA / TDB / TDC Series: 18 - 12 Awg
TDD/TDH Series: 22 – 10 Awg
TDG Series: 22 – 12 Awg
TDJ Series: 16 – 8 Awg

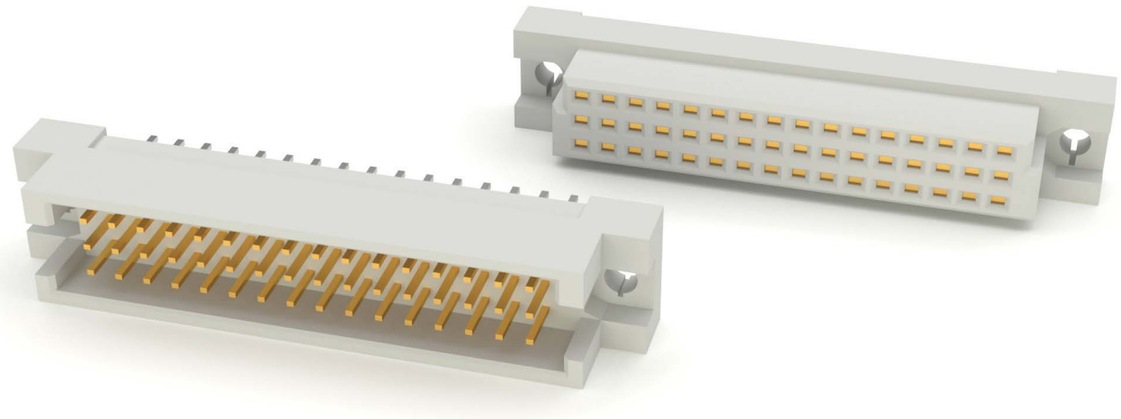
### Temperature Rating:
Operating temperature: -40°C to +105°C



| PART NUMBER | PITCH | POSITIONS | ROWS | ADDITIONAL FEATURES | PRODUCT DATA |
|---|---|---|---|---|---|
| TDD-XX | 12.0mm | 02-24 | Dual Row | | View |
| TDD-XX-A | 12.0mm | 04-24 | Dual Row | | View |
| TDD-XX-V2 | 12.0mm | 02-24 | Dual Row | | View |
| TDD-XX-WP-A | 12.0mm | 04-24 | Dual Row | Wire Protector | View |
| TDD-XX-WP-V2 | 12.0mm | 02-24 | Dual Row | Wire Protector | View |
| TDDA-XX-WP-V2 | 12.0mm | 02-24 | Dual Row | Wire Protector | View |
| TDG-XX | 8.0mm | 02-24 | Dual Row | | View |
| TDG-XX-01 | 8.0mm | 04-24 | Dual Row | | View |
| TDG-XX-01-V0 | 8.0mm | 04-24 | Dual Row | | View |
| TDGA-XX | 8.0mm | 04-24 | Dual Row | | View |
| TDH-XX | 10.0mm | 04-24 | Dual Row | Brass Screws | View |
| TDH-XX-A | 10.0mm | 04-24 | Dual Row | | View |
| TDH-XX-A-V2 | 10.0mm | 04-24 | Dual Row | | View |
| TDH-XX-A1-V2 | 10.0mm | 04-24 | Dual Row | | View |
| TDH-XX-SS | 10.0mm | 04-24 | Dual Row | Steel Screws | View |
| TDH-XX-WP | 10.0mm | 04-24 | Dual Row | Wire Protector | View |
| TDH-XX-WP-SS | 10.0mm | 04-24 | Dual Row | Wire Protector & Steel Screws | View |
| TDHA-XX-V2 | 10.0mm | 04-24 | Dual Row | Brass Screws | View |
| TDHA-XX-WP-V2 | 10.0mm | 04-24 | Dual Row | Wire Protector & Brass Screws | View |
| TDJ-XX | 14.50mm | 04-24 | Dual Row | | View |
| TDJ-XX-01 | 14.50mm | 04-24 | Dual Row | | View |
| TDJ-XX-01-M-CC | 14.50mm | 02-12 | Single Row | | View |
| TDJA-XX-V2 | 14.50mm | 02-24 | Dual Row | | View |
| TDJA-XX-WP-V2 | 14.50mm | 02-24 | Dual Row | Wire Protector | View |

# DIN 41612 Connectors

Adam Tech DIN 41612 Connectors are a versatile two piece PCB connector set with feaures useful for many applications including connections for plug-in card and back-panel wiring, PCB to PCB attachment and peripheral connections for external interfaces. Features include a multitude of body sizes and styles with options that include selective contact loading, make and break contacts, contact lead length choices and contact plating variations each in .100" [2.54mm] or .200" [5.08mm] centerline spacing.



## FEATURES & SPECIFICATIONS

### FEATURES:
Industry Standard Compatible
Multiple Body Sizes
Contact Plating Options
Make and Break contacts
.100" or .200" Centerlines

### MATING OPTIONS:
Adam Tech DNR series and All industry standard DIN 41612 Connectors.

### SPECIFICATIONS:

### Material:
Standard insulator: PBT, glass filled, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Beige

### Contacts:
Brass or Phosphor Bronze

### Plating:
Gold over nickel underplate on contact area
Tin over copper underplate on tails

### Electrical:
Operating voltage: 500V AC max.
Current rating: 2 Amps max
Contact resistance: 30 mΩ max. initial
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Insertion force: 20 lbs / contact max.
Withdrawal force: 0.033 lbs / contact min
Mating durability: Class I: 500 cycles
Class II: 250 cycles
Class III: 100 cycles

### Temperature Rating:
Operating temperature: -55°C to +125°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

| PART NUMBER | GENDER | CONTACT POSITIONS | MOUNTING ORIENTATION | BODY TYPE | CENTERLINE | TERMINALS | OPTIONS | PRODUCT DATA |
|---|---|---|---|---|---|---|---|---|
| DIN-240FR-L44-A1 | Female | 4 Rows: 100, 128, 160, 200, 240 | Right Angle PCB Mount | Long Body (4 Rows): A, B, C, & D Loaded | .100" | .157" Solder Tail | | View |
| DIN-240MS-L44-A1 | Male | 4 Rows: 100, 128, 160, 200, 240 | Straight PCB Mount | Long Body (4 Rows): A, B, C, & D Loaded | .100" | .157" Solder Tail | High Temp Insulator | View |
| DIN-48FR-S33-A1C1 | Female | 3 Rows: 16, 32, 48 | Right Angle PCB Mount | Short Body (3 Rows): A, B, & C Loaded | .100" | .157" Solder Tail | | View |
| DIN-48FS-S33-A1C1 | Male | 3 Rows: 16, 32, 48 | Straight PCB Mount | Short Body (3 Rows): A, B, & C Loaded | .100" | .157" Solder Tail | | View |
| DIN-48MR-S33-A1C1 | Male | 3 Rows: 16, 32, 48 | Right Angle PCB Mount | Short Body (3 Rows): A, B, & C Loaded | .100" | .157" Solder Tail | | View |
| DIN-48MS-S33-A1C1 | Male | 3 Rows: 16, 32, 48 | Straight PCB Mount | Short Body (3 Rows): A, B, & C Loaded | .100" | .157" Solder Tail | | View |
| DIN-64FR-L22-A1C1 | Female | 2 Rows: 32, 64 | Right Angle PCB Mount | Long Body (2 Rows): A & B Loaded | .100" | .157" Solder Tail | | View |
| DIN-64FS-L22-A1C1 | Female | 2 Rows: 32, 64 | Straight PCB Mount | Long Body (2 Rows): A & B Loaded | .100" | .157" Solder Tail | | View |
| DIN-64MR-L22-A1C1 | Male | 2 Rows: 32, 64 | Right Angle PCB Mount | Long Body (2 Rows): A & B Loaded | .100" | .157" Solder Tail | | View |
| DIN-64MS-L22-A1C1 | Male | 2 Rows: 32, 64 | Straight PCB Mount | Long Body (2 Rows): A & B Loaded | .100" | .157" Solder Tail | | View |
| DIN-96FR-L33-A1C1 | Female | 3 Rows: 32, 64, 96 | Right Angle PCB Mount | Long Body (3 Rows): A & C Loaded | .100" | .157" Solder Tail | | View |
| DIN-96FS-L33-A1C1 | Female | 3 Rows: 32, 64, 96 | Straight PCB Mount | Long Body (3 Rows): A & C Loaded | .100" | .157" Solder Tail | | View |
| DIN-96MR-L33-A1C1 | Male | 3 Rows: 32, 64, 96 | Right Angle PCB Mount | Long Body (3 Rows): A & C Loaded | .100" | .157" Solder Tail | | View |
| DIN-96MS-L33-A1C1 | Male | 3 Rows: 32, 64, 96 | Straight PCB Mount | Long Body (3 Rows): A, B, & C Loaded | .100" | .157" Solder Tail | | View |

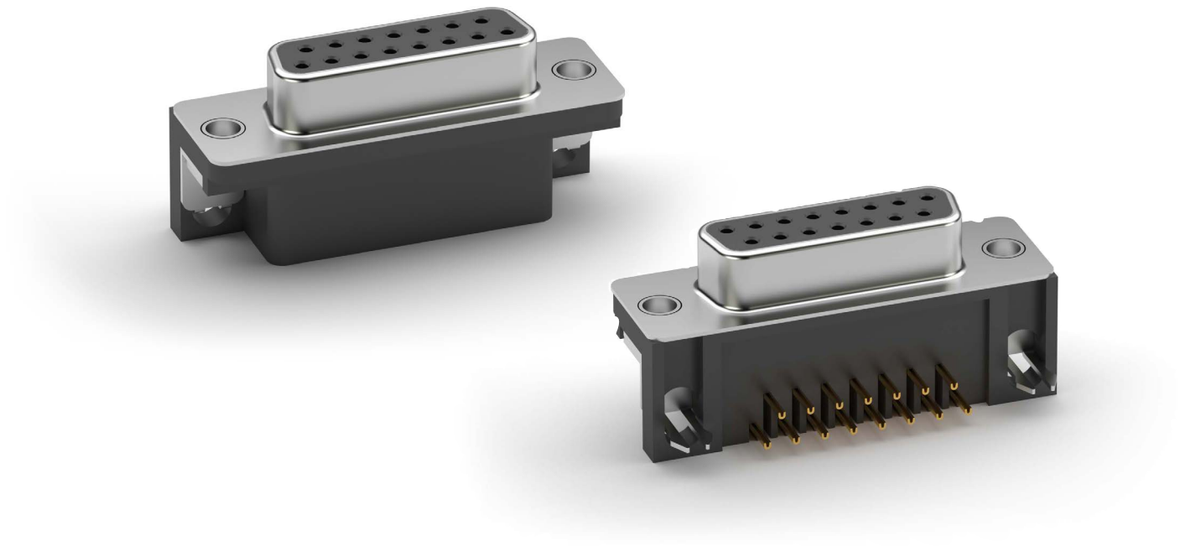
## PART NUMBER CONFIGURATION

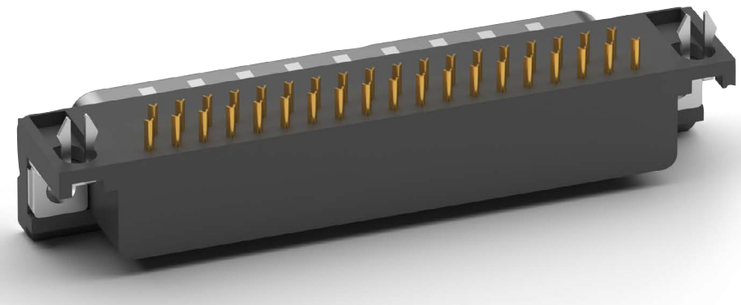
| DIN | - | 96 | M | R | - | L33 | - | A | 1 | C1 | - | PF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SERIES | | NO. OF CONTACTS | GENDER | MOUNTING ANGLE | | BODY TYPE | | PITCH | SOLDER TAIL LENGTH | PERFORMANCE CLASS | | OPTIONS |
| **DIN** = *DIN 41612 Connector* | | *Short body 2 rows:* **16, 32**<br>*Short body 3 rows:* **16, 32, 48**<br>*Long body 2 rows:* **32, 64**<br>*Long body 3 rows:* **32, 64, 96**<br>*Long body 4 rows:* **100, 128, 160, 200,** | **M** = *Male, Pin Contacts*<br>**F** = *Female, Socket Contacts* | **S** = *Straight, PCB mount*<br>**R** = *Right Angle, PCB mount* | | **S22** = *Short body, 2 rows A & B Loaded*<br>**S32** = *Short body, 3 rows A & C Loaded*<br>**S33** = *Short body, 3 rows A, B & C Loaded*<br>**L22** = *Long body, 2 rows A & B Loaded*<br>**L32** = *Long body, 3 rows A & C Loaded*<br>**L33** = *Long body, 3 rows A, B & C Loaded*<br>**L44** = *Long body, 4 rows A, B, C & D Loaded* | | **A** = *.100" [2.54 mm]*<br>**B** = *.200" [5.08 mm]* | **1** = *Standard solder tail length .157"*<br>**2** = *Wire wrap .511" Solder tail (straight female only)*<br>**.XXX**= *Customized Solder tail length*<br>**00** = *No contact Loaded* | **C1** = *Class 1*<br>**C2** = *Class 2.*<br>**C3** = *Class 3* | | *Add designator(s) to end of part number*<br>**PF** = *Press-fit Tails*<br>**HT** = *Hi-Temp insulator 260°C max.*<br>**BL** = *Metal board locks in mounting holes* |

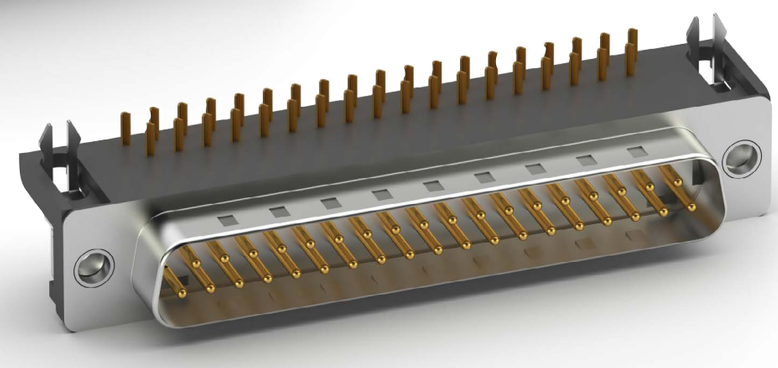
# D-Sub Connectors

RIGHT ANGLE .318” [8.08] MOUNT

Adam Tech right angle PCB mount .318" footprint D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25 and 37 positions they are a good choice for a low cost industry standard connection. These connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.







## FEATURES & SPECIFICATIONS

### FEATURES:
Industry standard compatibility
Durable metal shell design
Precision formed contacts
Variety of Mating and mounting options

### MATING CONNECTORS:
Adam Tech D-Subminiatures and all industry standard
D-Subminiature connectors.

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T
Insulator color: Black
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

### Contact Plating:
Gold over Nickel underplate on contact area.

### Electrical:
Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min
Temperature Rating:
Operating temperature: -55°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

## PART NUMBER CONFIGURATION

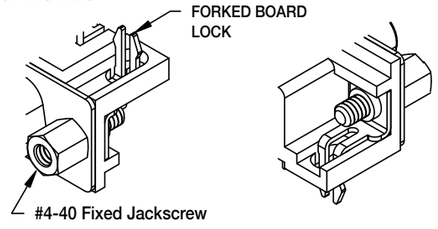
| DE09 | - | PL | - | 2 | 4 | - | LPJ |
|---|---|---|---|---|---|---|---|
| **SHELL SIZE/ POSITIONS** | | **CONTACT TYPE** | | **PCB MOUNTING OPTIONS** | **MATING FACE/MOUNTING OPTIONS** | | **OPTIONS** |
| **DE09** = *9 Position*<br>**DA15** = *15 Position*<br>**DB25** = *25 Position*<br>**DC37** = *37 Position* | | **PL** = *Plug, .318” Footprint*<br>**SL** = *Socket, .318” Footprint* | | **1** = *Wrap around ground straps with thru holes*<br>**2** = *Forked board locks*<br>**3** = *Top side only ground straps with thru holes*<br>**4** = *Top side only ground straps with #4-40 threaded screw holes* | **3** = *#4-40 fixed jackscrews*<br>**4** = *#4-40 flush threaded inserts*<br>**5** = *#4-40 flush threaded inserts with removable jackscrews installed*<br>**6** = *.120” non-threaded mounting holes* | | *Add designator(s) to end of part number*<br>**EMI** = *Ferrite filtered version for EMI/RFI suppression*<br>**LPJ** = *Loose packed jackscrews*<br>**F** = *Superior retention 4 prong boardlocks*<br>**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C*<br>**R** = *Round jackscrews* |

| PART NUMBER | TYPE | POSITIONS | GENDER | PCB MOUNTING OPTIONS | PRODUCT DATA |
|---|---|---|---|---|---|
| DE09-PL-24-BP | Right Angle .318 | 9 | Plug | Forked Board Locks | View |
| DXXX-PL-24 | Right Angle .318 | Multiple Options | Plug | Forked Board Locks | View |
| DXXX-PL-25 | Right Angle .318 | Multiple Options | Plug | Forked Board Locks | View |
| DXXX-SL-24 | Right Angle .318 | Multiple Options | Socket | Forked Board Locks | View |
| DXXX-SL-25 | Right Angle .318 | Multiple Options | Socket | Forked Board Locks | View |

# RIGHT ANGLE .318” [8.08] MOUNTING OPTIONS

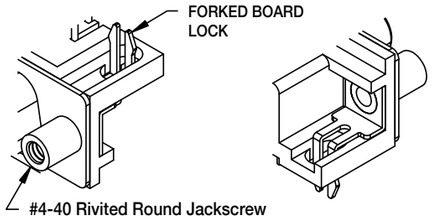
## MATING FACE & PCB MOUNTING OPTIONS

### OPTION 23

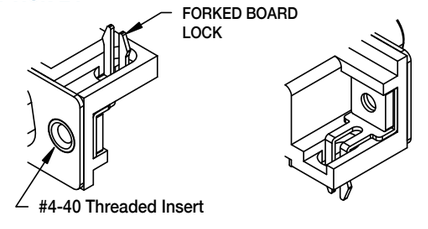



*Standard Stocked Item

### OPTION 23-R
#4-40 Rivited Round Jackscrew (Shown)
### OPTION 27
#4-40 Rivited Hex Jackscrew (Not Shown)

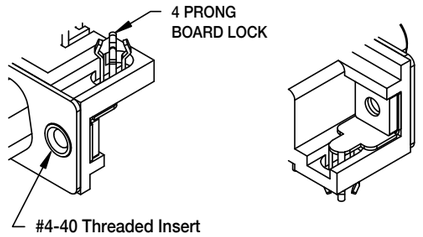



### OPTION 24

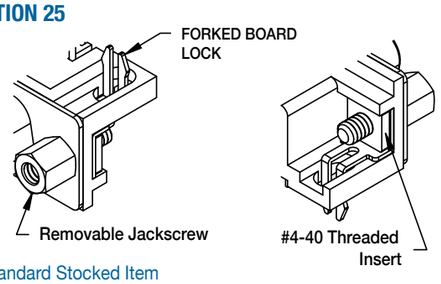



*Standard Stocked Item

### OPTION 24-F

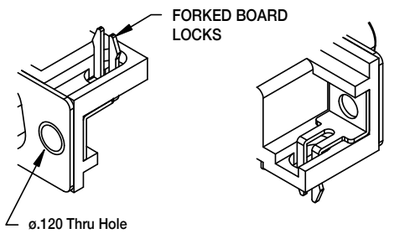



### OPTION 25

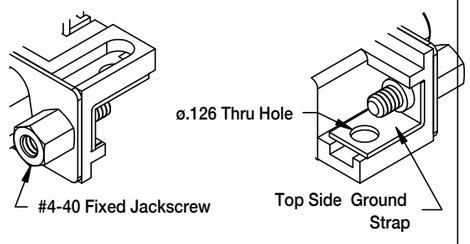



*Standard Stocked Item

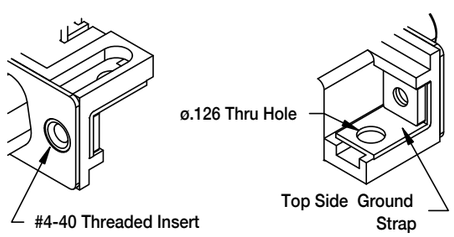
### OPTION 26



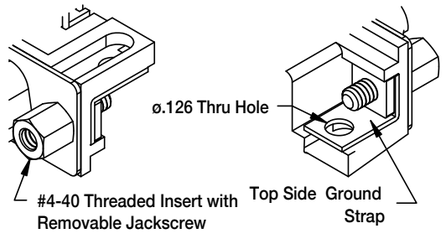

### OPTION 33



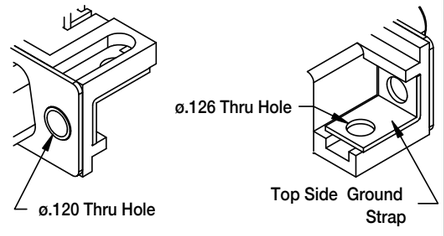

### OPTION 34



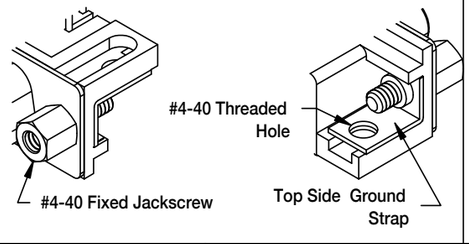

### OPTION 35



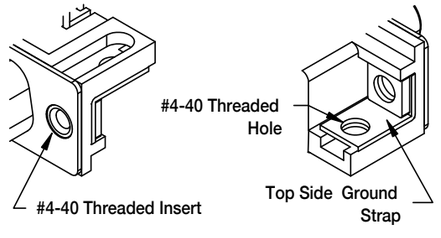

### OPTION 36



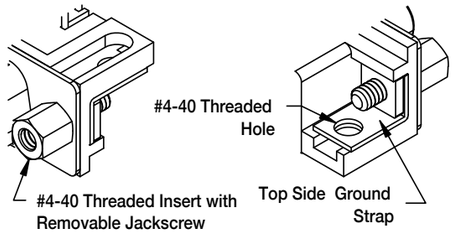

### OPTION 43



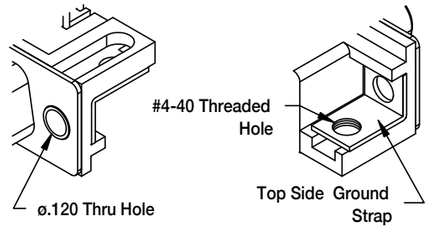

### OPTION 44




### OPTION 45




### OPTION 46



# D-Sub Connectors

RIGHT ANGLE .590” [15.00] MOUNT

Adam Tech right angle PCB mount .590” footprint D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25 and 37 positions they are an excellent choice for a low cost industry standard connection. They are available with full or half size PCB side mounting flanges. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.



DE09-PQ-R5



DE09-SQ-R5

## FEATURES & SPECIFICATIONS

### FEATURES:

Half or Full flange options
Industry standard compatibility
Durable metal shell design
Precision formed contacts
Variety of Mating and mounting options

### MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard
D-Subminiature connectors.

### PACKAGING:

Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T
Insulator Color: Black

Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

### Contact Plating:

Gold over Nickel underplate on contact area.

### Electrical:

Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 mΩ max. Initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:

Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

### Temperature Rating:

Operating temperature: -55°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

## PART NUMBER CONFIGURATION

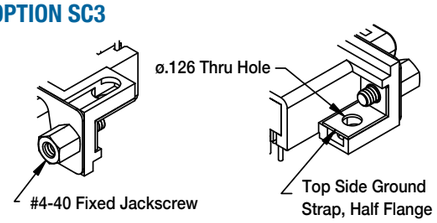
**DE09 - PQ - SB 4 - LPJ**

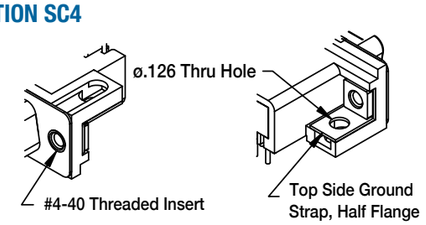
| SHELL SIZE/ POSITIONS | CONTACT TYPE | PCB MOUNTING OPTIONS | MATING FACE/MOUNTING OPTIONS | OPTIONS |
|---|---|---|---|---|
| **DE09** = *9 Position*<br>**DA15** = *15 Position*<br>**DB25** = *25 Position*<br>**DC37** = *37 Position* | **PQ** = *Plug, .590” Footprint*<br>**SQ** = *Socket, .590” Footprint* | **SA** = *Wrap around ground straps with thru holes on half flange*<br>**SB** = *Wrap around ground straps with thru holes on full flange*<br>**SC** = *Top side only ground straps with thru holes on half flange*<br>**SD** = *Top side only ground straps with thru holes on full flange*<br>**F** = *Forked boardlocks on half flange*<br>**R** = *Forked boardlocks on full flange* | **3** = *#4-40 fixed jackscrews*<br>**4** = *#4-40 flush threaded inserts*<br>**5** = *#4-40 flush threaded inserts with removable jackscrews installed*<br>**6** = *.120” non-threaded mounting holes* | *Add designator(s) to end of part number*<br>**EMI** = *Ferrite filtered version for EMI/RFI suppression*<br>**LPJ** = *Loose packed jackscrews*<br>**F** = *Superior retention 4 prong boardlocks*<br>**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C*<br>**R** = *Round jackscrews* |

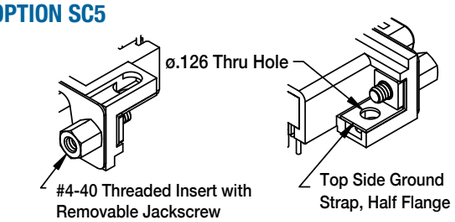
| PART NUMBER | TYPE | POSITIONS | GENDER | PCB MOUNTING OPTIONS | PRODUCT DATA |
|---|---|---|---|---|---|
| DXXX-PQ-SB4 | Right Angle .590 | Multiple Options | Plug | Wrap-Around Ground Straps with Through Holes on Full Flange | View |
| DXXX-SQ-F4 | Right Angle .590 | Multiple Options | Socket | Forked Boardlocks on Half Flange | View |
| DXXX-SQ-R5 | Right Angle .590 | Multiple Options | Socket | Forked Boardlocks on Full Flange | View |

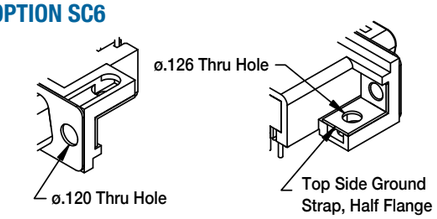
# RIGHT ANGLE .590” [15.00] MOUNTING OPTIONS

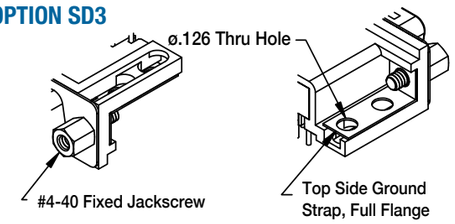
## MATING FACE & PCB MOUNTING OPTIONS

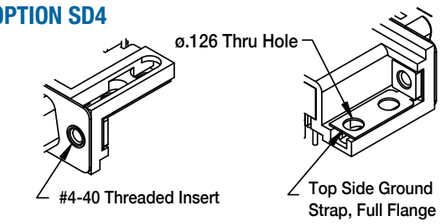
### OPTION SC3


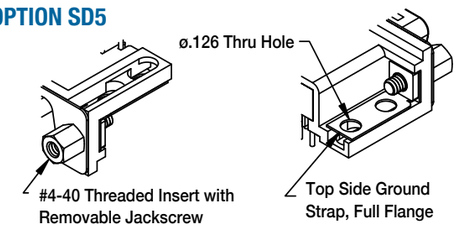

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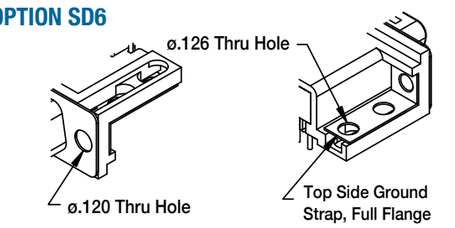

### OPTION SC5


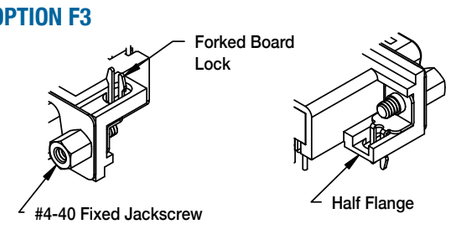

### OPTION SC6


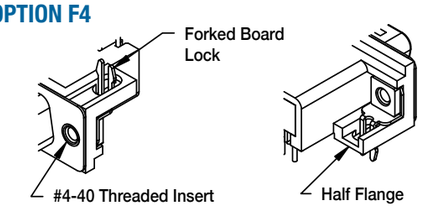

### OPTION SD3


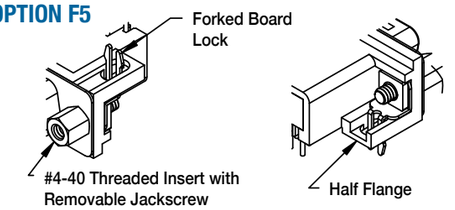

### OPTION SD4


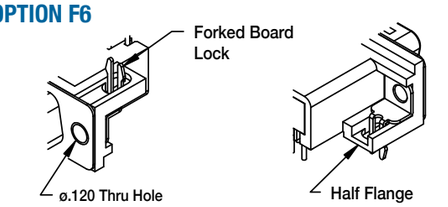

### OPTION SD5


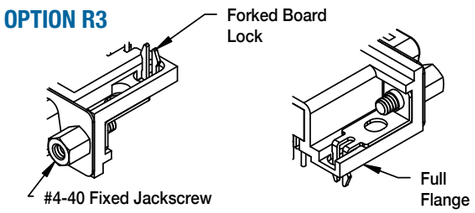

### OPTION SD6


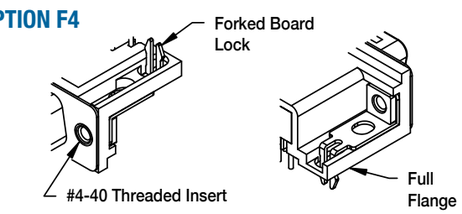

### OPTION F3


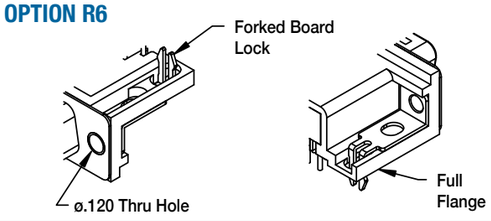

### OPTION F4


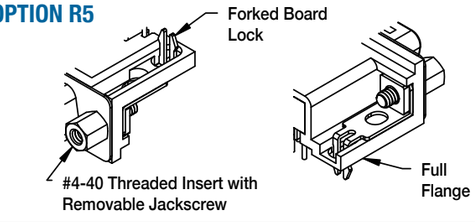

### OPTION F5



### OPTION F6



### OPTION R3



### OPTION F4


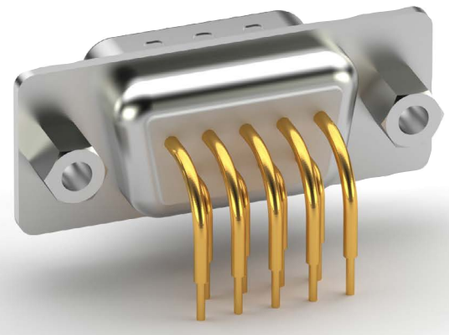

### OPTION R6



### OPTION R5


# D-Sub Connectors

## RIGHT ANGLE WITH MACHINED CONTACTS

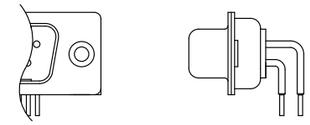
Adam Tech Right Angle .283" footprint D-Sub connectors with Screw Machine Contacts are a popular interface for many I/O applications. Offered in 9, 15, 25 and 37 positions they are a good choice for a high reliability industry standard connection. These connectors are manufactured with precision machine turned contacts and offer an exceptional high reliability connection. They are available in a choice of contact plating and a wide selection of mating and mounting options.



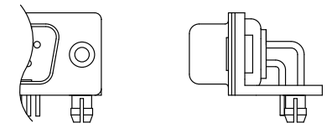




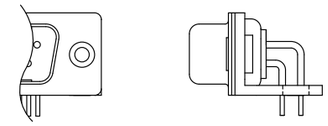
### PCB MOUNTING OPTIONS



Option 1: Without Bracket

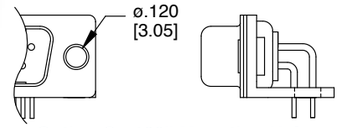


Option 2: Bracket with Board Lock

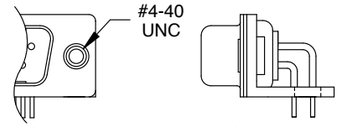


Option 3: Bracket with .120" Mounting Hole

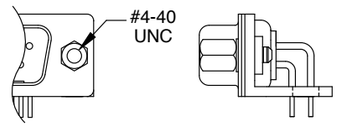
### MATING FACE MOUNTING OPTIONS




Option C: .120" Mounting Hole




Option D: #4-40 Rear Clinch Nut




Option E: #4-40 Threaded Insert with removable Jack Screws

## FEATURES & SPECIFICATIONS

### FEATURES:

Exceptional Machine Contact connection
Industry standard compatibility
Durable metal shell design
Precision turned screw machined contacts
Variety of Mating and mounting options

### MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

### PACKAGING:

Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T rated UL94V-0
Insulator Colors: White (Black optional)
Contacts: Phosphor Bronze
Shell: Steel, Tin plated
Hardware: Brass, Nickel plated

### Contact Plating:

Gold over Nickel underplate on contact area.

### Electrical:

Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:

Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

### Temperature Rating:

Operating temperature: -55°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

## PART NUMBER CONFIGURATION

**DE09 - PH - C 1 D - BK**

| SHELL SIZE/ POSITIONS | CONTACT TYPE | FOOTPRINT DIMENSION | PCB MOUNTING OPTIONS | MATING FACE/ MOUNTING OPTIONS | OPTIONS |
|---|---|---|---|---|---|
| **DE09** = *9 Position*<br>**DA15** = *15 Position*<br>**DB25** = *25 Position*<br>**DC37** = *37 Position*<br>**DC50** = *50 Position* | **PH** = *Plug, Right Angle Machined Contact*<br>**SH** = *Socket, Right Angle Machined Contact* | **C** = *.283" Footprint*<br>**G** = *.370" Footprint* | **1** = *Without Bracket*<br>**2** = *Bracket with forked boardlock*<br>**3** = *Bracket with .120" PCB mounting hole* | *WITH BRACKET MOUNTING*<br>**A** = *Full plastic bracket with #4-40 Threaded Inserts*<br>**B** = *Full plastic bracket with #4-40 Threaded Inserts with removable Jackscrews*<br>**AM** = *Metal brackets with #4-40 Threaded Inserts*<br>**BM** = *Metal brackets with #4-40 Threaded Inserts with removable Jackscrews*<br>*WITHOUT BRACKET MOUNTING*<br>**C** = *.120" Non-Threaded holes*<br>**D** = *#4-40 Rear Clinch Nut*<br>**E** = *#4-40 Clinch Nut with removable Jackscrews* | *Add designator(s) to end of part number*<br>**BK** = *Black insulator*<br>**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C* |

| PART NUMBER | TYPE | POSITIONS | GENDER | PCB MOUNTING OPTIONS | PRODUCT DATA |
|---|---|---|---|---|---|
| DXXX-PH-C1D | Right Angle with Machined Contacts | Multiple Options | Plug | Without Bracket | View |
| DXXX-PH-C2A | Right Angle with Machined Contacts | Multiple Options | Plug | Bracket with Forked Boardlock | View |
| DXXX-PH-C2AM | Right Angle with Machined Contacts | Multiple Options | Plug | Bracket with Forked Boardlock | View |
| DXXX-PH-C3AM | Right Angle with Machined Contacts | Multiple Options | Plug | Bracket with .120" PCB Mounting Hole | View |
| DXXX-PH-C3B | Right Angle with Machined Contacts | Multiple Options | Plug | Bracket with .120" PCB Mounting Hole | View |
| DXXX-PH-G2BM | Right Angle with Machined Contacts | Multiple Options | Plug | Bracket with Forked Boardlock | View |
| DXXX-PH-G3BM | Right Angle with Machined Contacts | Multiple Options | Plug | Bracket with .120" PCB Mounting Hole | View |
| DXXX-SH-C1C | Right Angle with Machined Contacts | Multiple Options | Socket | .120" Mounting Holes | View |
| DXXX-SH-C2A | Right Angle with Machined Contacts | Multiple Options | Socket | #4-40 Threaded Flush Inserts | View |
| DXXX-SH-G2B | Right Angle with Machined Contacts | Multiple Options | Socket | Bracket with Forked Boardlock | View |
| DXXX-SH-G2BM | Combination D-Sub with Coax or Power | Multiple Options | Socket | Bracket with Forked Boardlock | View |
| DXXX-SH-G3FM | Combination D-Sub with Coax or Power | Multiple Options | Socket | Bracket with .120" PCB Mounting Hole | View |

# D-Sub Connectors
## STRAIGHT PCB & WIRE WRAP PCB TAIL

Adam Tech Straight PCB tail D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions they are an excellent choice for a low cost, sturdy, full metal body industry standard connection. These connectors are manufactured with precision stamped or machined turned contacts offering a choice of contact plating and a wide selection of mating and mounting options.





## FEATURES & SPECIFICATIONS

### FEATURES:
Industry standard compatibility
Durable metal shell design
Precision formed contacts
Variety of Mating and mounting options

### MATING CONNECTORS:
Adam Tech D-Subminiatures and all industry standard
D-Subminiature connectors.

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T
Insulator Colors: Black (White optional)
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

### Contact Plating:
Gold over Nickel underplate on contact area.

### Electrical:
Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

### Temperature Rating:
Operating temperature: -55°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

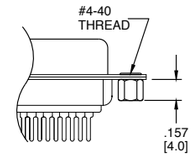
## PART NUMBER CONFIGURATION

**DE09 - PT - 1 - SL - EMI**

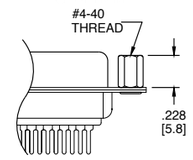
| SHELL SIZE/ POSITIONS | CONTACT TYPE | TAIL LENGTH | MOUNTING OPTIONS | OPTIONS |
|---|---|---|---|---|
| **DE09** = *9 Position*<br>**DA15** = *15 Position*<br>**DB25** = *25 Position*<br>**DC37** = *37 Position*<br>**DC50** = *50 Position* | **PT** = *Plug, Straight PCB Tail, Standard Profile*<br>**ST** = *Socket, Straight PCB Tail, Standard Profile*<br>**PE** = *Plug, Straight PCB Tail, High Profile*<br>**SE** = *Socket, Straight PCB Tail, High Profile* | **1** = *Standard tail length for .062"-.125" PCB's (E = .189")*<br>**2** = *Wire wrap tail (E = .512")* | *Blank = .120"Mounting Holes*<br>**SL** = *Bottom side riveted #4-40 Clinch Nuts*<br>**JS** = *Top side riveted #4-40 Jackscrews*<br>**BL** = *Riveted #4-40 Internal Threaded Standoffs with Boardlocks*<br>**R** = *Riveted Round Jack Screws*<br>**JSL** = *Bottom side riveted #4-40 Clinch Nuts with Jackscrews installed* | *Add designator(s) to end of part number*<br>**EMI** = *Ferrite filtered version for EMI / RFI suppression*<br>**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C* |

| PART NUMBER | TYPE | POSITIONS | GENDER | PCB MOUNTING OPTIONS | PRODUCT DATA |
|---|---|---|---|---|---|
| DXXX-PE-1 | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Plug | .120" Mounting Holes | View |
| DXXX-PE-1-BL | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Plug | Riveted #4-40 Internal Threaded Standoffs with Boardlocks | View |
| DXXX-PE-1-BL-JS | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Plug | Riveted #4-40 Jack Screws & Standoffs with Boardlocks | View |
| DXXX-PE-1-JS | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Plug | Riveted #4-40 Jack Screws | View |
| DXXX-PE-1-SL | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Plug | Riveted #4-40 Clinch Nuts | View |
| DXXX-PT-1 | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Plug | .120" Mounting Holes | View |
| DXXX-PT-1-BL | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Plug | Riveted #4-40 Internal Threaded Standoffs with Boardlocks | View |
| DXXX-PT-1-BL-JS | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Plug | Riveted #4-40 Jack Screws & Standoffs with Boardlocks | View |
| DXXX-PT-1-JS | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Plug | Riveted #4-40 Jack Screws | View |
| DXXX-PT-1-SL | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Plug | Riveted #4-40 Clinch Nuts | View |
| DXXX-PT-1-SL-JS | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Plug | Bottom Side Riveted #4-40 Clinch Nuts with Jack Screws Installed | View |
| DXXX-PT-2 | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Plug | .120" Mounting Holes | View |
| DXXX-PT-2-BL | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Plug | Riveted #4-40 Internal Threaded Standoffs with Boardlocks | View |
| DXXX-PT-2-JS | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Plug | Riveted #4-40 Jack Screws | View |
| DXXX-PT-2-SL | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Plug | Riveted #4-40 Clinch Nuts | View |
| DXXX-SE-1 | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Socket | .118" Mounting Holes | View |
| DXXX-SE-1-BL | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Socket | Riveted #4-40 Internal Threaded Standoffs with Boardlocks | View |
| DXXX-SE-1-BL-JS | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Socket | Riveted #4-40 Jack Screws & Standoffs with Boardlocks | View |
| DXXX-SE-1-JS | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Socket | Riveted #4-40 Jack Screws | View |
| DXXX-ST-1 | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Socket | .118" Mounting Holes | View |
| DXXX-ST-1-BL | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Socket | Riveted #4-40 Internal Threaded Standoffs with Boardlocks | View |
| DXXX-ST-1-BL-JS | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Socket | Riveted #4-40 Jack Screws & Standoffs with Boardlocks | View |
| DXXX-ST-1-JS | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Socket | Riveted #4-40 Jack Screws | View |
| DXXX-ST-1-MC | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Socket | .118" Mounting Holes | View |
| DXXX-ST-1-SL | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Socket | Riveted #4-40 Clinch Nuts | View |
| DXXX-ST-2 | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Socket | .120" Mounting Holes | View |
| DXXX-ST-2-BL | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Socket | Riveted #4-40 Internal Threaded Standoffs with Boardlocks | View |
| DXXX-ST-2-JS | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Socket | Riveted #4-40 Jack Screws | View |
| DXXX-ST-2-SL | Straight PCB and Wire Wrap PCB Tail | Multiple Options | Socket | Riveted #4-40 Clinch Nuts | View |

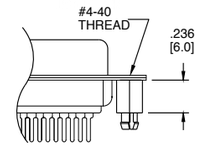
### MOUNTING OPTIONS



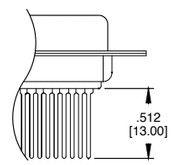

**SL Option**
Bottom side riveted #4-40 Clinch Nuts



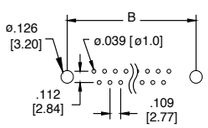

**JS Option**
Top side riveted #4-40 Jack Screws




**BL Option**
#4-40 Threaded Boardlocks




**Wire Wrap Tail Option**
Terminal length -2 wire wrap tail

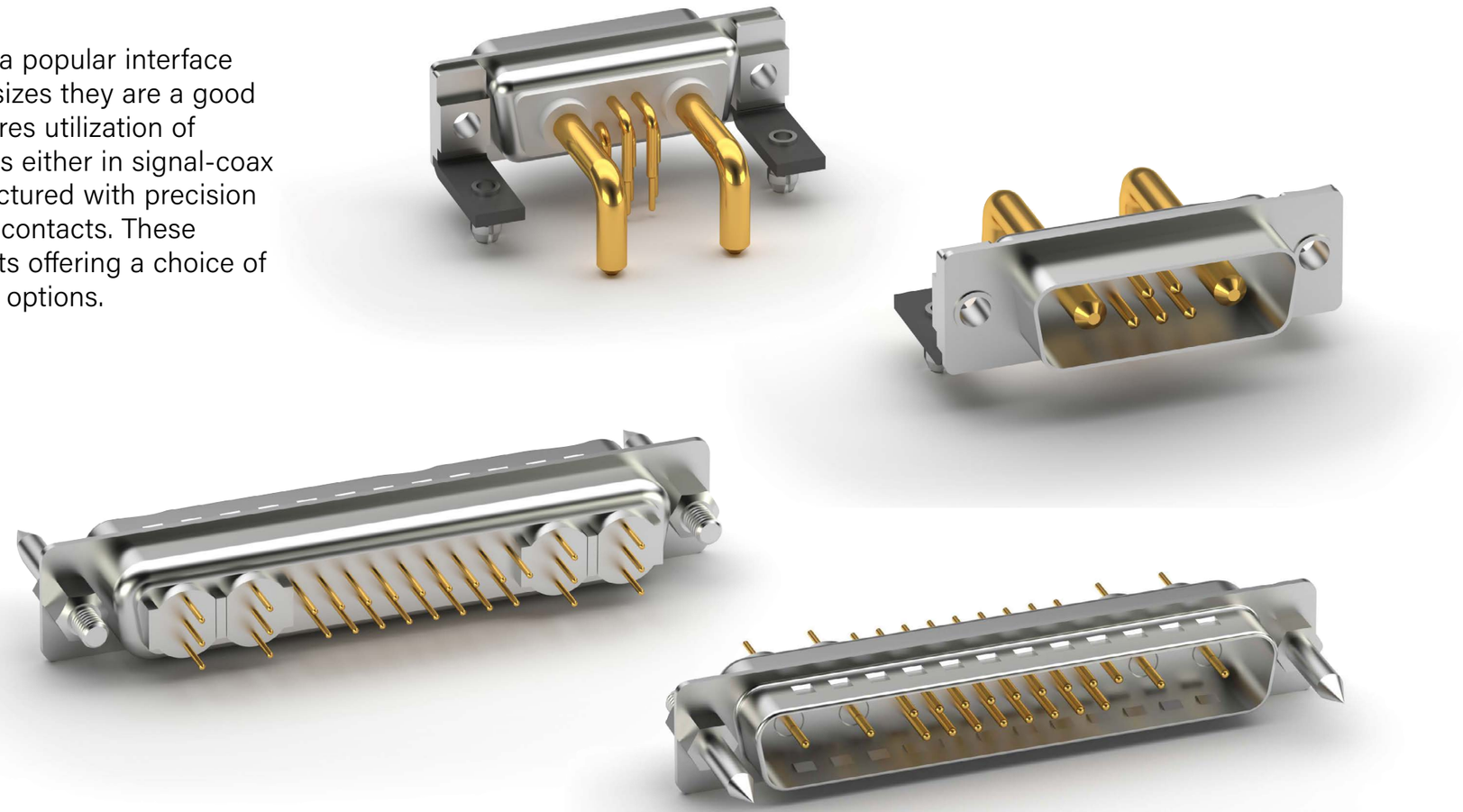



**Recommended PCB Layout**

# D-Sub Connectors

## COMBINATION D-SUB WITH COAX OR POWER

Adam Tech Combination Signal/Coax D-Sub connectors are a popular interface for many mixed signal I/O applications. Offered in five shell sizes they are a good choice for a low cost industry standard connection that requires utilization of standard signal and high performance, low impedance signals either in signal-coax or signal -power choices. Adam Tech connectors are manufactured with precision stamped standard signal contacts and precision turned coax contacts. These connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.



### FEATURES & SPECIFICATIONS

**Electrical:**
Operating voltage: 250V AC / DC max.
Signal Current rating: 5 Amps max.
High Power contact current rating: 20 or 40 Amps.
Coaxial Impedance: 50Ω (75Ω optional)
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

### PART NUMBER CONFIGURATION

**D11W1 - PL - 1 - 3**

| SHELL | TYPE | STYLE | MOUNTING OPTIONS |
|---|---|---|---|
| **D1W1, D2W2, D3W3, D5W1, D5W5, D7W2, D8W8, D9W4N, D11W1, D13W3, D13W6, D17W2, D17W5, D21W1, D21W4, D24W7, D25W3, D27W2, D36W4, D43W2** | *SIGNAL-COAX:*<br>**PT** = *Plug, Straight PCB*<br>**ST** = *Socket, Straight PCB*<br>**PL** = *Plug, Right Angle PCB*<br>**SL** = *Socket, Right Angle PCB*<br>**PD** = *Plug, Solder Cup*<br>**SD** = *Socket, Solder Cup*<br><br>*SIGNAL-POWER:*<br>**PTP** = *Plug, Straight PCB, Power Contacts*<br>**STP** = *Socket, Straight PCB, Power Contacts*<br>**PLP** = *Plug, Right Angle PCB, Power Contacts*<br>**SLP** = *Socket, Right Angle PCB, Power Contacts*<br>**PDP** = *Plug, Solder Cup Power Contacts*<br>**SDP** = *Socket, Solder Cup Power Contacts* | *SIGNAL-COAX:*<br>**1** = *50 Ohm*<br>**2** = *75 Ohm*<br><br>*SIGNAL-POWER:*<br>**3** = *10 Amps*<br>**4** = *20 Amps*<br>**5** = *30 Amps*<br>**6** = *40 Amps*<br>**7** = *50 Amps* | *RIGHT ANGLE:*<br>**1** = *120" non-threaded mounting holes, no bracket*<br>**2** = *Short Bracket with #4-40 flush threaded inserts in mounting holes*<br>**2A** = *Short Bracket with #4-40 flush threaded inserts in mounting holes Jack Screws installed*<br>**3** = *Long Bracket with #4-40 flush threaded inserts in mounting holes*<br>**3A** = *Long Bracket with #4-40 flush threaded inserts in mounting holes Jack Screws installed*<br><br>*STRAIGHT:*<br>**JS** = *Riveted #4-40 Jack Screws on top of flange*<br>**SL** = *Riveted #4-40 clinch nuts on bottom of flange*<br>**BL** = *Riveted Board Locks* |

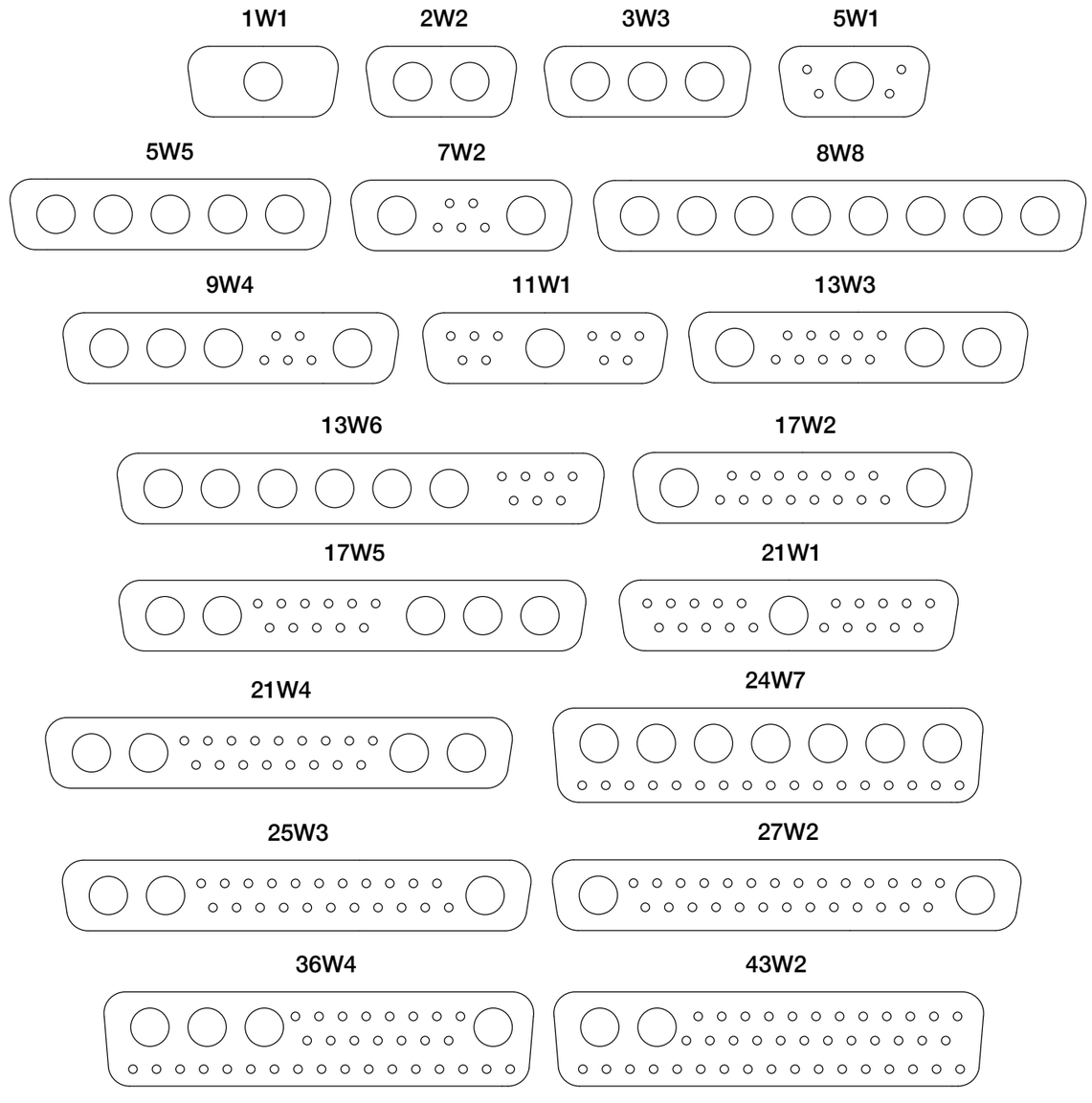
| PART NUMBER | TYPE | GENDER | PCB MOUNTING OPTIONS | STYLE (FOR COAX/POWER PARTS) | PRODUCT DATA |
|---|---|---|---|---|---|
| D11W1-PL-0-3 | Combination D-Sub with Coax or Power | Plug | Short Bracket with #4-40 Flush Threaded Inserts in Mounting Holes | Signal-Coax | View |
| D11W1-SL-0-3 | Combination D-Sub with Coax or Power | Socket | Long Bracket with #4-40 Flush Threaded Inserts in Mounting Holes | Signal-Coax | View |
| D13W3-PD-X-1 | Combination D-Sub with Coax or Power | Plug | Long Bracket with #4-40 Flush Threaded Inserts in Mounting Holes | Signal-Coax | View |
| D13W3-PDP-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D13W3-PL-1-3-BL | Combination D-Sub with Coax or Power | Plug | Long Bracket with #4-40 Flush Threaded Inserts in Mounting Holes | Signal-Coax | View |
| D13W3-PLP-X-3-BL-JS | Combination D-Sub with Coax or Power | Plug | | Signal-Power | View |
| D13W3-PT-X-BL | Combination D-Sub with Coax or Power | Plug | | Signal-Coax | View |
| D13W3-PTP-X | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |

| PART NUMBER | TYPE | GENDER | PCB MOUNTING OPTIONS | STYLE (FOR COAX/POWER PARTS) | PRODUCT DATA |
|---|---|---|---|---|---|
| D13W3-SD-X-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Coax | View |
| D13W3-SDP-X-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D13W3-ST-X-BL | Combination D-Sub with Coax or Power | Socket | | Signal-Coax | View |
| D13W3-STP-X | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D17W2-PD-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Coax | View |
| D17W2-PDP-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D17W2-PL-2-2-BL | Combination D-Sub with Coax or Power | Plug | Short Bracket with #4-40 Flush Threaded Inserts in Mounting Holes | Signal-Coax | View |
| D17W2-SD-X-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Coax | View |
| D17W2-SDP-X-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D17W2-SL-2-2-BL | Combination D-Sub with Coax or Power | Socket | Short Bracket with #4-40 Flush Threaded Inserts in Mounting Holes | Signal-Coax | View |
| D17W2-SLP-X-2 | Combination D-Sub with Coax or Power | Socket | Short Bracket with #4-40 Flush Threaded Inserts in Mounting Holes | Signal-Power | View |
| D17W5-PDP-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D17W5-PLP-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D17W5-SDP-X-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D17W5-SLP-X-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D21W4-PDP-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D21W4-PL-1-3-BL | Combination D-Sub with Coax or Power | Plug | Long Bracket with #4-40 Flush Threaded Inserts in Mounting Holes | Signal-Coax | View |
| D21W4-PLP-X-2 | Combination D-Sub with Coax or Power | Plug | Short Bracket with #4-40 Flush Threaded Inserts in Mounting Holes | Signal-Power | View |
| D21W4-PTP-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D21W4-SL-1-3-BL | Combination D-Sub with Coax or Power | Socket | Long Bracket with #4-40 Flush Threaded Inserts in Mounting Holes | Signal-Coax | View |
| D21W4-SLP-X-2 | Combination D-Sub with Coax or Power | Socket | Short Bracket with #4-40 Flush Threaded Inserts in Mounting Holes | Signal-Power | View |
| D21W4-ST-2 | Combination D-Sub with Coax or Power | Socket | | Signal-Coax | View |
| D21W4-STP-X-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D24W7-PDP-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D24W7-PTP-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D24W7-SDP-X-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D24W7-SL-1-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Coax | View |
| D24W7-STP-X-BL | Combination D-Sub with Coax or Power | Socket | | Signal-Power | View |
| D25W3-PDP-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D25W3-PT-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Coax | View |
| D25W3-PTP-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D25W3-SLP-X-2 | Combination D-Sub with Coax or Power | Plug | Short Bracket with #4-40 Flush Threaded Inserts in Mounting Holes | Signal-Power | View |
| D25W3-ST-X-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Coax | View |
| D25W3-STP-X-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D27W2-PD-1-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Coax | View |
| D27W2-SD-1-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Coax | View |
| D2W2-PDP-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D2W2-PLP-X-2-BL | Combination D-Sub with Coax or Power | Plug | Short Bracket with #4-40 Flush Threaded Inserts in Mounting Holes | Signal-Power | View |
| D2W2-SDP-X-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D2W2-SLP-X-2-BL | Combination D-Sub with Coax or Power | Socket | | Signal-Power | View |
| D36W4-PD-1-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Coax | View |
| D36W4-SD-1-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Coax | View |
| D3W3-PD-2-1 | Combination D-Sub with Coax or Power | Plug | | Signal-Coax | View |
| D3W3-PDP-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D3W3-PL-1-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Coax | View |
| D3W3-PLP-XX-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D3W3-PTP-X-BL | Combination D-Sub with Coax or Power | Plug | | Signal-Power | View |
| D3W3-SD-2-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Coax | View |
| D3W3-SDP-X-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D3W3-SL-1-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Coax | View |
| D3W3-SLP-XX-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D43W2-PD-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Coax | View |

| PART NUMBER | TYPE | GENDER | PCB MOUNTING OPTIONS | STYLE (FOR COAX/POWER PARTS) | PRODUCT DATA |
|---|---|---|---|---|---|
| D43W2-SD-X-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Coax | View |
| D5W1-SL-1-2A-BL | Combination D-Sub with Coax or Power | Socket | Short Bracket with #4-40 Flush Threaded Inserts in Mounting Holes, Jack Screws Installed | Signal-Coax | View |
| D5W5-PD-1-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Coax | View |
| D5W5-PD-2-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Coax | View |
| D5W5-PDP-X1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D5W5-PLP-XX-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D5W5-PTP-X-BL | Combination D-Sub with Coax or Power | Plug | | Signal-Power | View |
| D5W5-SDP-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D5W5-SL-1-2A | Combination D-Sub with Coax or Power | Plug | Short Bracket with #4-40 Flush Threaded Inserts in Mounting Holes, Jack Screws Installed | Signal-Coax | View |
| D5W5-SLP-X-2A | Combination D-Sub with Coax or Power | Plug | Short Bracket with #4-40 Flush Threaded Inserts in Mounting Holes, Jack Screws Installed | Signal-Power | View |
| D5W5-STP-X-BL | Combination D-Sub with Coax or Power | Socket | | Signal-Power | View |
| D7W2-PD-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Coax | View |
| D7W2-PDP-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D7W2-PLP-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D7W2-PTP-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D7W2-SD-X-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Coax | View |
| D7W2-SDP-X-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D7W2-SLP-X-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D7W2-STP-X-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D8W8-PDP-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D8W8-PL-1-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Coax | View |
| D8W8-PLP-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D8W8-PTP-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D8W8-SDP-X-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D8W8-SL-1-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Coax | View |
| D8W8-SLP-X-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |

| PART NUMBER | TYPE | GENDER | PCB MOUNTING OPTIONS | STYLE (FOR COAX/POWER PARTS) | PRODUCT DATA |
|---|---|---|---|---|---|
| D8W8-STP-X-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D9W4-PDP-X-1 | Combination D-Sub with Coax or Power | Plug | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D9W4-PLP-X-3-BL | Combination D-Sub with Coax or Power | Plug | Long Bracket with #4-40 Flush Threaded Inserts in Mounting Holes | Signal-Power | View |
| D9W4-SDP-X-1 | Combination D-Sub with Coax or Power | Socket | .120" Non Threaded Mounting Holes, No Bracket | Signal-Power | View |
| D9W4-SLP-X-3-BL | Combination D-Sub with Coax or Power | Socket | Long Bracket with #4-40 Flush Threaded Inserts in Mounting Holes | Signal-Power | View |

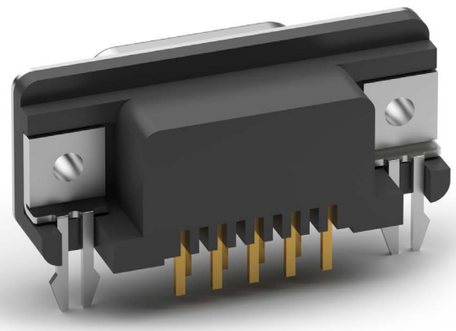
## SHELL CONFIGURATIONS



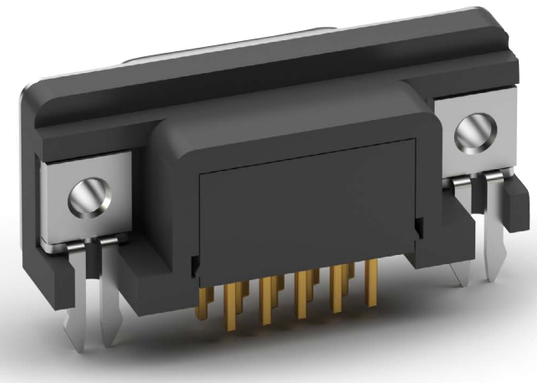
# D-Sub Connectors

RIGHT ANGLE .197” [5.00] SLIMLINE

Adam Tech Right Angle Slimline PCB tail D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15 and 25 positions they are an excellent choice for a low cost industry standard connection and are ideal for low profile design requirements. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.









## FEATURES & SPECIFICATIONS

### FEATURES:
Short profile space saving design
Industry standard compatibility
Durable metal shell design
Precision formed contacts
Variety of Mating and mounting options

### MATING CONNECTORS:
Adam Tech D-Subminiatures and all industry standard
D-Subminiature connectors.

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T
Insulator Color: Black
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

### Contact Plating:
Gold over Nickel underplate on contact area.

### Electrical:
Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

### Temperature Rating:
Operating temperature: -55°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

## PART NUMBER CONFIGURATION

**DE09 - PN - 24 - R**

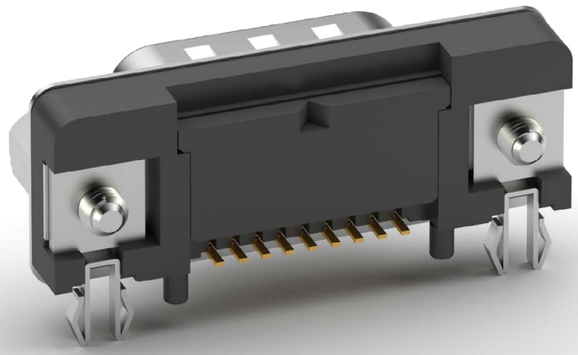
| SHELL SIZE/ POSITIONS | CONTACT TYPE | MOUNTING OPTIONS | OPTIONS |
|---|---|---|---|
| **DE09** = *9 Positions*<br>**DB25** = *25 Positions*<br>**HD15** = *High Density 15 Positions* | **PN** = *Plug, .197” Slimline*<br>**SN** = *Socket, .197” Slimline* | **24** = *Forked Boardlocks for PCB Retention and #4-40 threaded inserts in mounting holes*<br>**25** = *Forked Boardlocks for PCB retention and #4-40 threaded inserts in mounting holes with installed jackscrews* | *Add designator(s) to end of part number*<br>**LPJ** = *Loose packed jackscrews*<br>**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C*<br>**R** = *Round jackscrews* |

| PART NUMBER | TYPE | POSITIONS | GENDER | PCB MOUNTING OPTIONS | HIGH DENSITY D-SUB TYPE | PRODUCT DATA |
|---|---|---|---|---|---|---|
| DXXX-PN-24 | Right Angle .197 | Multiple Options | Plug | Forked Boardlocks for PCB Retention and #4-40 Threaded Inserts in Mounting Holes | | View |
| DXXX-SN-24 | Right Angle .197 | Multiple Options | Socket | Forked Boardlocks for PCB Retention and #4-40 Threaded Inserts in Mounting Holes | | View |
| DXXX-SN-25 | Right Angle .197 | Multiple Options | Socket | Forked Boardlocks for PCB Retention and #4-40 Threaded Inserts in Mounting Holes with Installed Jackscrews | | View |
| HD15-SN-24 | Right Angle .197 | 15 | Socket | Forked Boardlocks for PCB Retention and #4-40 Threaded Inserts in Mounting Holes | | View |
| HDXX-SN-24 | High Density D-Sub | Multiple Options | Socket | | Right Angle PCB Mount | View |
| HDXX-SN-25 | High Density D-Sub | Multiple Options | Socket | | Right Angle PCB Mount | View |

# D-Sub Connectors

## RIGHT ANGLE SMT .118” [3.00] SLIMLINE

Adam Tech Right Angle SMT Slimline D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15 and 25 positions they are an excellent choice for a low cost industry standard connection and are ideal for low profile design requirements. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.







## FEATURES & SPECIFICATIONS

### FEATURES:

Short profile space saving design
Industry standard compatibility
Durable metal shell design
Precision formed contacts
Variety of Mating and mounting options

### MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard
D-Subminiature connectors.

### PACKAGING:

Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:

Insulator: Hi-Temperature thermoplastic, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze or Brass
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

### Contact Plating:

Gold over Nickel underplate on contact area.

### Electrical:

Operating voltage: 250V AC / DC max.
Current rating: 1 Amp max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:

Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

### Temperature Rating:

Operating temperature: -55°C to +105°C
Soldering process temperature: 260°C

## PART NUMBER CONFIGURATION

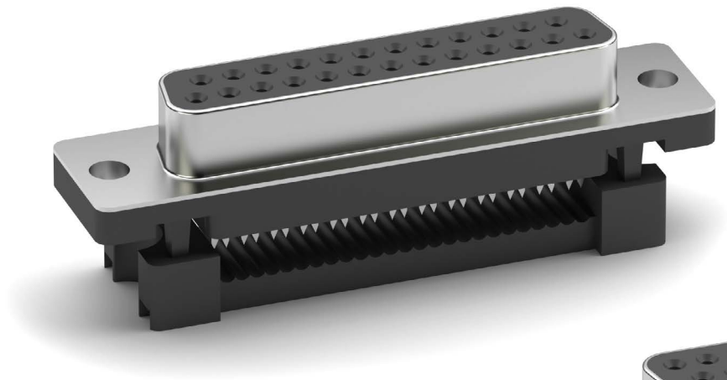
| DB25 | - | PS | - | 25 | - | R |
|---|---|---|---|---|---|---|

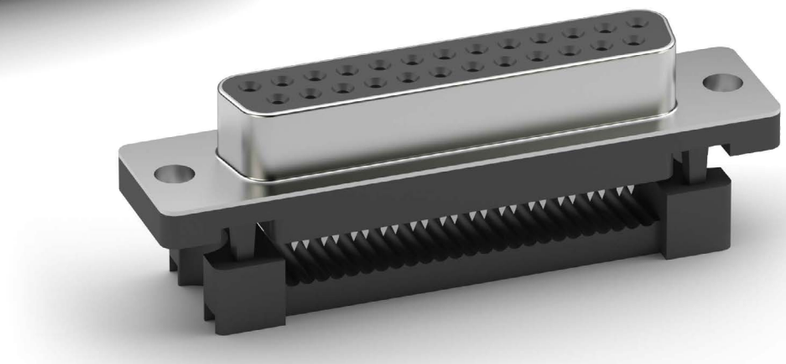
| SHELL SIZE/ POSITIONS | CONTACT TYPE | MOUNTING OPTIONS | OPTIONS |
|---|---|---|---|
| **DE09** = *9 Positions*<br>**DB25** = *25 Positions*<br>**HD15** = *High Density 15 Positions* | **PS** = *Plug Surface Mount*<br>**SS** = *Socket Surface Mount* | **24** = *Forked Boardlocks for PCB Retention and #4-40 threaded inserts in mounting holes*<br>**25** = *Forked Boardlocks for PCB retention and #4-40 threaded inserts in mounting holes with installed jackscrews* | *Add designator(s) to end of part number*<br>**R** = *Round jackscrews* |

| PART NUMBER | TYPE | POSITIONS | GENDER | PCB MOUNTING OPTIONS | PRODUCT DATA |
|---|---|---|---|---|---|
| DB25-PS-25 | Right Angle .118 | 25 | Plug | Forked Boardlocks for PCB Retention and #4-40 Threaded Inserts in Mounting Holes with Installed Jackscrews | View |
| DB25-SS-24 | Right Angle .118 | 25 | Socket | Forked Boardlocks for PCB Retention and #4-40 Threaded Inserts in Mounting Holes | View |
| DE09-PS-25 | Right Angle .118 | 9 | Plug | Forked Boardlocks for PCB Retention and #4-40 Threaded Inserts in Mounting Holes with Installed Jackscrews | View |
| DE09-SS-24 | Right Angle .118 | 9 | Socket | Forked Boardlocks for PCB Retention and #4-40 Threaded Inserts in Mounting Holes | View |
| DXXX-SS-24 | Right Angle .318 | 25 | Socket | Forked Board Locks | View |
| HDL15-SS-24 | Right Angle .118 | 15 | Socket | Forked Boardlocks for PCB Retention and #4-40 Threaded Inserts in Mounting Holes | View |
| HDL15-SS-25 | Right Angle .118 | 15 | Socket | Forked Boardlocks for PCB Retention and #4-40 Threaded Inserts in Mounting Holes with Installed Jackscrews | View |

# D-Sub Connectors
## IDC FLAT CABLE TERMINATION

Adam Tech Flat Cable IDC D-Sub connectors are a popular interface for many I/O and cable assembly applications. Offered in 9, 15, 25, 37 and 50 positions they are an excellent choice for a low cost industry standard connection that terminates .050" flat cable quickly, easily and compactly. These connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.









## FEATURES & SPECIFICATIONS

### FEATURES:
Quickly terminates to flat cable
Industry standard compatibility
Durable metal shell design
Integral strain relief available
Precision formed contacts
Variety of Mating and mounting options

### MATING CONNECTORS:
Adam Tech D-Subminiatures and all industry standard
D-Subminiature connectors.

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Insulator: PBT, 30% glass reinforced, rated UL94V-0
Insulator Colors: Black (Blue optional)
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

### Contact Plating:
Gold over Nickel underplate on contact area.

### Electrical:
Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min
Recommended cable size: 28 to 30 Awg.

### Temperature Rating:
Operating temperature: -55°C to +105°C

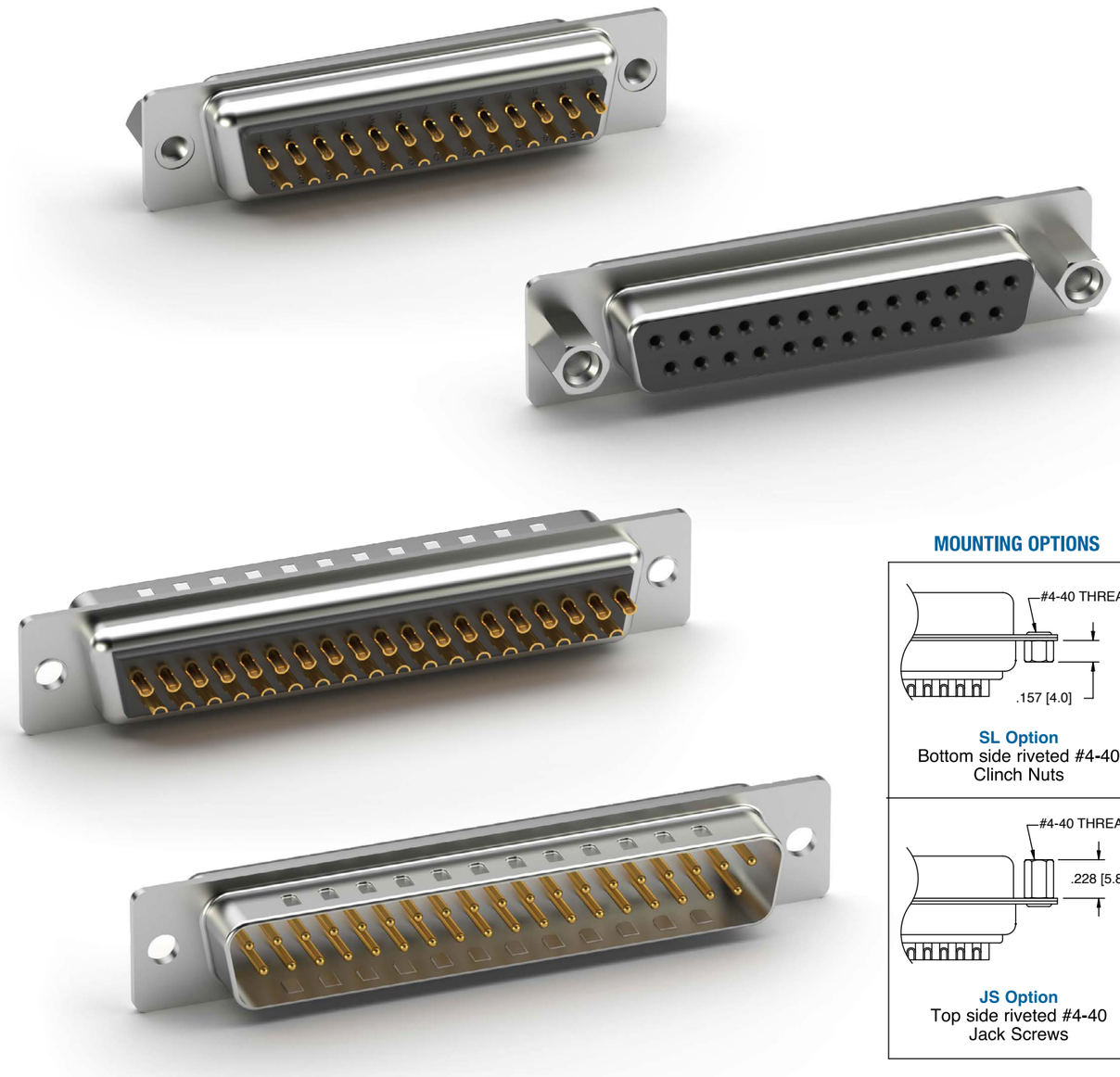
## PART NUMBER CONFIGURATION

| DE09 | - | PF | - | M | 1 | BU |
|---|---|---|---|---|---|---|
| **SHELL SIZE/ POSITIONS** | | **CONTACT TYPE** | | **BODY CONSTRUCTION** | **MOUNTING OPTIONS** | **OPTIONS** |
| **DE09** = *9 Position*<br>**DA15** = *15 Position*<br>**DB25** = *25 Position*<br>**DC37** = *37 Position*<br>**DC50** = *50 Position* | | **PF** = *Plug, IDC*<br>**SF** = *Socket, IDC*<br><br>*STRAIN RELIEF PART NO.:*<br>**DSR-09** = *9 Position*<br>**DSR-15** = *15 Position*<br>**DSR-25** = *25 Position*<br>**DSR-37** = *37 Position*<br>**DSR-50** = *50 Position* | | **M** = *Metal shell*<br>**P** = *All plastic body* | **1** = *.130" mounting holes*<br>**2** = *#4-40 threaded flush inserts (Metal Shell only)* | *Add designator(s) to end of part number*<br>**BU** = *Blue color insulator* |

| PART NUMBER | TYPE | POSITIONS | GENDER | PCB MOUNTING OPTIONS | PRODUCT DATA |
|---|---|---|---|---|---|
| DXXX-PF-M1 | IDC Flat Cable Termination | Multiple Options | Plug | .130" Mounting Holes | View |
| DXXX-PF-M2 | IDC Flat Cable Termination | Multiple Options | Plug | #4-40 Threaded Flush Inserts | View |
| DXXX-PF-P1 | IDC Flat Cable Termination | Multiple Options | Plug | .130" Mounting Holes | View |
| DXXX-PF-P2 | IDC Flat Cable Termination | Multiple Options | Plug | #4-40 Threaded Flush Inserts | View |
| DXXX-SF-M1 | IDC Flat Cable Termination | Multiple Options | Socket | .130" Mounting Holes | View |
| DXXX-SF-M2 | IDC Flat Cable Termination | Multiple Options | Socket | #4-40 Threaded Flush Inserts | View |
| DXXX-SF-P1 | IDC Flat Cable Termination | Multiple Options | Socket | .130" Mounting Holes | View |
| DXXX-SF-P2 | IDC Flat Cable Termination | Multiple Options | Socket | #4-40 Threaded Flush Inserts | |
| DSR-XX | Strain Relief | | | | View |

# D-Sub Connectors
## SOLDER CUP TERMINATION

Adam Tech Solder Cup D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions, they are an excellent choice for a low cost industry standard connection. These connectors are manufactured with precision stamped contacts, and offer a wide selection of mating and mounting options. Adam Tech Solder Cup connectors can be soldered to cable ends or mounted directly to a PCB card edge.



### MOUNTING OPTIONS




**SL Option**
Bottom side riveted #4-40 Clinch Nuts




**JS Option**
Top side riveted #4-40 Jack Screws

## FEATURES & SPECIFICATIONS

### FEATURES:
Cable or edge card mounting
Industry standard compatibility
Durable metal shell design
Precision formed contacts
Mating and mounting options

### MATING CONNECTORS:
Adam Tech D-Subminiatures and all industry standard
D-Subminiature connectors.

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Insulator: PBT, 30% glass reinforced, rated UL94V-0
Insulator Colors: Black (White optional)
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

### Contact Plating:
Gold over Nickel underplate on contact area.

### Electrical:
Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

### Temperature Rating:
Operating temperature: -55°C to +105°C

## PART NUMBER CONFIGURATION

**DE09 - PD - JS - WT**

| SHELL SIZE/POSITIONS | CONTACT TYPE | MOUNTING OPTIONS | OPTIONS |
|---|---|---|---|
| **DE09** = *9 Position*<br>**DA15** = *15 Position*<br>**DB25** = *25 Position*<br>**DC37** = *37 Position*<br>**DC50** = *50 Position* | **PD** = *Solder Cup, Plug*<br>**SD** = *Solder Cup, Socket* | *Blank = .120" Mounting Holes*<br>**SL** = *Bottom Side Riveted, #4-40 clinch nuts*<br>**JS** = *Top Side Riveted, #4-40 Jack Screws* | *Add designator(s) to end of part number*<br>**WT** = *White color insulator* |

| PART NUMBER | TYPE | POSITIONS | GENDER | PCB MOUNTING OPTIONS | PRODUCT DATA |
|---|---|---|---|---|---|
| DXXX-PD | Solder Cup Termination | Multiple Options | Plug | .120" Mounting Holes | View |
| DXXX-PD-JS | Solder Cup Termination | Multiple Options | Plug | Top Side Riveted, #4-40 Jack Screws | View |
| DXXX-PD-MC | Solder Cup Termination | Multiple Options | Plug | .118" Mounting Holes | View |
| DXXX-PD-SL | Solder Cup Termination | Multiple Options | Plug | Bottom Side Riveted, #4-40 Clinch Nuts | View |
| DXXX-SD | Solder Cup Termination | Multiple Options | Socket | .120" Mounting Holes | View |
| DXXX-SD-JS | Solder Cup Termination | Multiple Options | Socket | Top Side Riveted, #4-40 Jack Screws | View |
| DXXX-SD-MC | Solder Cup Termination | Multiple Options | Socket | .118" Mounting Holes | View |
| DXXX-SD-SL | Solder Cup Termination | Multiple Options | Socket | Bottom Side Riveted, #4-40 Clinch Nuts | View |
| DE09-SD-LC-KIT-X | Strain Relief | | | | View |

# D-Sub Connectors
CRIMP AND POKE SYSTEM

Adam Tech Crimp and Poke D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions they are a low cost alternative to soldering a connector to cable. Contacts are crimped onto discrete wires and pushed into the connector body. The connector is comprised of a metal shell and plastic insulator and is available with a variety of mating options. The contacts are precision stamped and are available in a variety of platings.





## FEATURES & SPECIFICATIONS

### FEATURES:
Low cost no solder alternative
Industry standard compatibility
Durable metal shell design
Precision formed contacts
Variety of Mating and mounting options

### MATING CONNECTORS:
Adam Tech D-Subminiatures and all industry standard
D-Subminiature connectors.

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Insulator: PBT, 30% glass reinforced, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

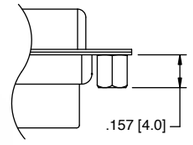
### Contact Plating:
Gold over Nickel underplate on contact area.

### Electrical:
Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

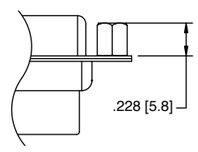
### Mechanical:
Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

### Temperature Rating:
Operating temperature: -55°C to +105°C

### MOUNTING OPTIONS




**SL Option**
Bottom side riveted #4-40 Clinch Nuts




**JS Option**
Top side riveted #4-40 Jack Screws

## HOUSING PART NUMBER CONFIGURATION

| DE09 | - | PR | - | JS |
|---|---|---|---|---|
| **SHELL SIZE/POSITIONS** | | **CONTACT TYPE** | | **MOUNTING OPTIONS** |
| **DE09** = *9 Position*<br>**DA15** = *15 Position*<br>**DB25** = *25 Position*<br>**DC37** = *37 Position*<br>**DC50** = *50 Position* | | **PR** = *Plug, Crimp and Poke*<br>**SR** = *Socket, Crimp and Poke* | | *Blank = .120" Mounting Holes*<br>**SL** = *Bottom Side Riveted, #4-40 clinch nuts*<br>**JS** = *Top Side Riveted, #4-40 Jack Screws* |

| PART NUMBER | TYPE | POSITIONS | GENDER | PCB MOUNTING OPTIONS | PRODUCT DATA |
|---|---|---|---|---|---|
| DXXX-PR | Crimp and Poke System | Multiple Options | Plug | .120" Mounting Holes | View |
| DXXX-PR-JS | Crimp and Poke System | Multiple Options | Plug | Riveted #4-40 Jack Screws | View |
| DXXX-PR-SL | Crimp and Poke System | Multiple Options | Plug | Riveted #4-40 Clinch Nuts | View |
| DXXX-SR | Crimp and Poke System | Multiple Options | Socket | .120" Mounting Holes | View |
| DXXX-SR-JS | Crimp and Poke System | Multiple Options | Socket | Riveted #4-40 Jack Screws | View |
| DXXX-SR-SL | Crimp and Poke System | Multiple Options | Socket | Riveted #4-40 Clinch Nuts | View |

Adam Tech's Crimp and Poke D-Sub Contacts provide support to our crimp and poke D-Sub connectors. These plug and socket contacts are gold plated and can accommodate wire gauges of 24-28 AWG.

## FEATURES & SPECIFICATIONS

### FEATURES:
Plug and socket contacts
Precision formed
Wire gauge: 24-28 AWG
Gold flash plated

### SPECIFICATIONS:

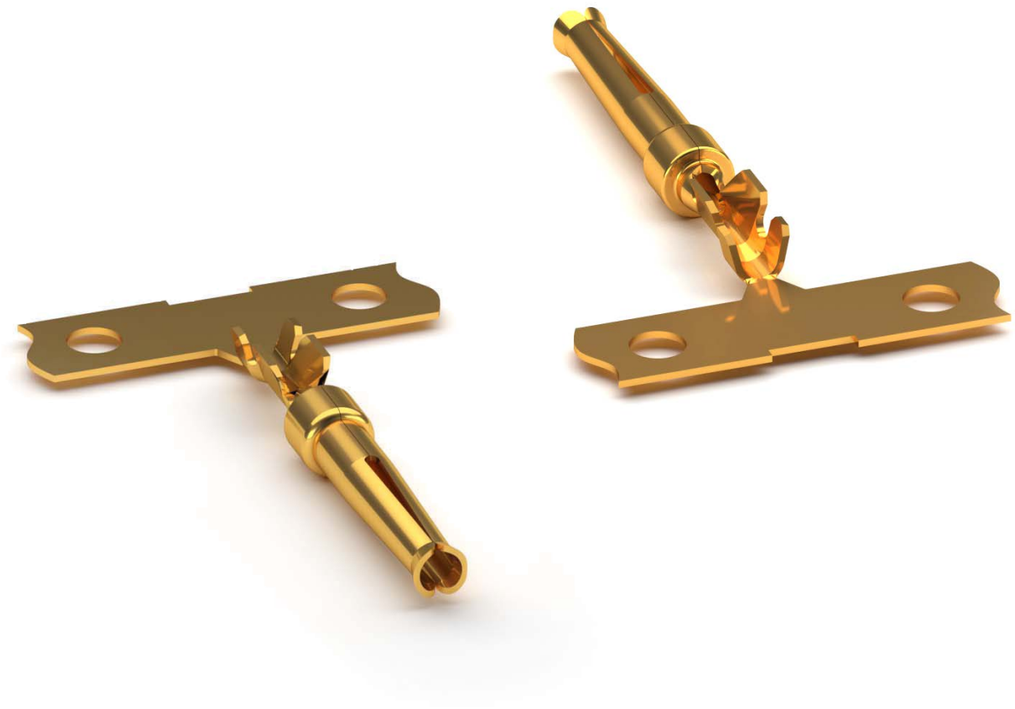
**Material:**
Contact: Phosphor bronze
Contact Plating:
Gold flash over nickel underplate overall

**Electrical:**
Current rating: 3 Amps max
Voltage rating: 250V AC max
Contact resistance: 20 mohms max initial

**Mechanical:**
Recommended wire range: 24-28 AWG

**Temperature Rating:**
Operating temperature range: -55°C to +105°C

### PACKAGING:
Loose cut
Tape and reel



## CONTACTS PART NUMBER CONFIGURATION

| DCP | - | 01 | - | R |
|---|---|---|---|---|
| **CONTACT WIRE RANGE** | | **CONTACT TYPE** | | **PACKAGING** |
| **DCP** = *Plug Contact*<br>**DCS** = *Socket Contact* | | **01** = *24-26 AWG*<br>**02** = *20-22 AWG*<br>**03** = *28-30 AWG* | | **R** = *10,000 piece reel* |

| PART NUMBER | TYPE | PRODUCT DATA |
|---|---|---|
| DCP-01-X | Crimp and Poke System - Contacts | View |
| DCS-01-X | Crimp and Poke System - Contacts | View |
| DCS-01A-R | Crimp and Poke System - Contacts | View |

# D-Sub Connectors
## FLUSH MOUNT STRAIGHT PCB TAIL

Adam Tech Flush Mount Straight PCB tail D-Sub connectors are a popular interface for many limited space I/O applications. Offered in 9, 15 and 25 positions they are an excellent choice for a low cost industry standard connection and are ideal for low profile design requirements. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.



## FEATURES & SPECIFICATIONS

### FEATURES:
Low profile space saving design
Industry standard compatibility
Durable metal shell design
Precision formed contacts
Variety of Mating and mounting options

### MATING CONNECTORS:
Adam Tech D-Subminiatures and all industry standard
D-Subminiature connectors.

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T
Insulator Color: Black
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

### Contact Plating:
Gold over Nickel underplate on contact area.

### Electrical:
Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 mΩ max. Initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

### Temperature Rating:
Operating temperature: -55°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

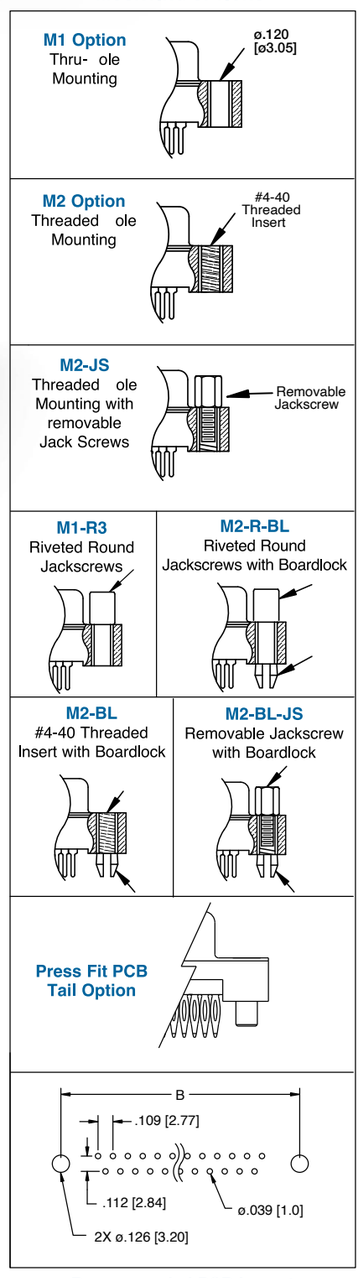
## PART NUMBER CONFIGURATION

**DE09 - PA - SA - M1 -**

| SHELL SIZE/ POSITIONS | CONTACT TYPE | PCB MOUNTING OPTIONS | MATING FACE/MOUNTING OPTIONS | OPTIONS |
|---|---|---|---|---|
| **DE09** = *9 Position*<br>**DA15** = *15 Position*<br>**DB25** = *25 Position*<br>**DC37** = *37 Position* | **PA** = *Plug, Flush mount, Straight PCB Tail*<br>**SA** = *Socket, Flush Mount,Straight PCB Tail* | **SA** = *Wrap around ground straps with thru holes on half flange*<br>**SB** = *Wrap around ground straps with thru holes on full flange*<br>**SC** = *Top side only ground straps with thru holes on half flange*<br>**SD** = *Top side only ground straps with thru holes on full flange*<br>**F** = *Forked boardlocks on half flange*<br>**R** = *Forked boardlocks on full flange* | **M1** = *Thru Hole Mounting*<br>**M2** = *#4-40 Threaded mounting holes*<br>**M1-R3** = *Round Jackscrews on top side*<br>**M2-R-BL** = *Round Jackscrews on top side with Boardlocks underneath*<br>**M2-JS** = *#4-40 Threaded Holes with removable Jackscrews*<br>**M2- BL** = *Riveted #4-40 Internal Threaded Standoffs with Boardlocks*<br>**M2-BL-JS** = *Removable Jackscrews with Boardlocks* | *Add designator(s) to end of part number*<br>**PF** = *Press-fit Pins*<br>**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C* |

| PART NUMBER | TYPE | POSITIONS | GENDER | PCB MOUNTING OPTIONS | PRODUCT DATA |
|---|---|---|---|---|---|
| DXXX-PA-M1 | Flush Mount Straight PCB Tails | Multiple Options | Plug | Through Hole Mounting | View |
| DXXX-PA-M2 | Flush Mount Straight PCB Tails | Multiple Options | Plug | #4-40 Threaded Mounting Holes | View |
| DXXX-PA-M2-BL | Flush Mount Straight PCB Tails | Multiple Options | Plug | Riveted #4-40 Internal Threaded Standoffs with Boardlocks | View |
| DXXX-PA-M2-BL-JS | Flush Mount Straight PCB Tails | Multiple Options | Socket | Removable Jackscrews with Boardlocks | View |
| DXXX-PA-M2-JS | Flush Mount Straight PCB Tails | Multiple Options | Plug | #4-40 Threaded Holes with Removable Jackscrews | View |
| DXXX-PA-M2-R-BL | Flush Mount Straight PCB Tails | Multiple Options | Plug | Round Jackscrews on Top Side with Boardlocks Underneath | View |
| DXXX-SA-M1 | Flush Mount Straight PCB Tails | Multiple Options | Socket | Through Hole Mounting | View |
| DXXX-SA-M2 | Flush Mount Straight PCB Tails | Multiple Options | Socket | #4-40 Threaded Mounting Holes | View |
| DXXX-SA-M2-BL | Flush Mount Straight PCB Tails | Multiple Options | Socket | Riveted #4-40 Internal Threaded Standoffs with Boardlocks | View |
| DXXX-SA-M2-BL-JS | Flush Mount Straight PCB Tails | Multiple Options | Socket | Removable Jackscrews with Boardlocks | View |
| DXXX-SA-M2-JS | Flush Mount Straight PCB Tails | Multiple Options | Socket | #4-40 Threaded Holes with Removable Jackscrews | View |
| DXXX-SA-M2-R-BL | Flush Mount Straight PCB Tails | Multiple Options | Socket | Round Jackscrews on Top Side with Boardlocks Underneath | View |

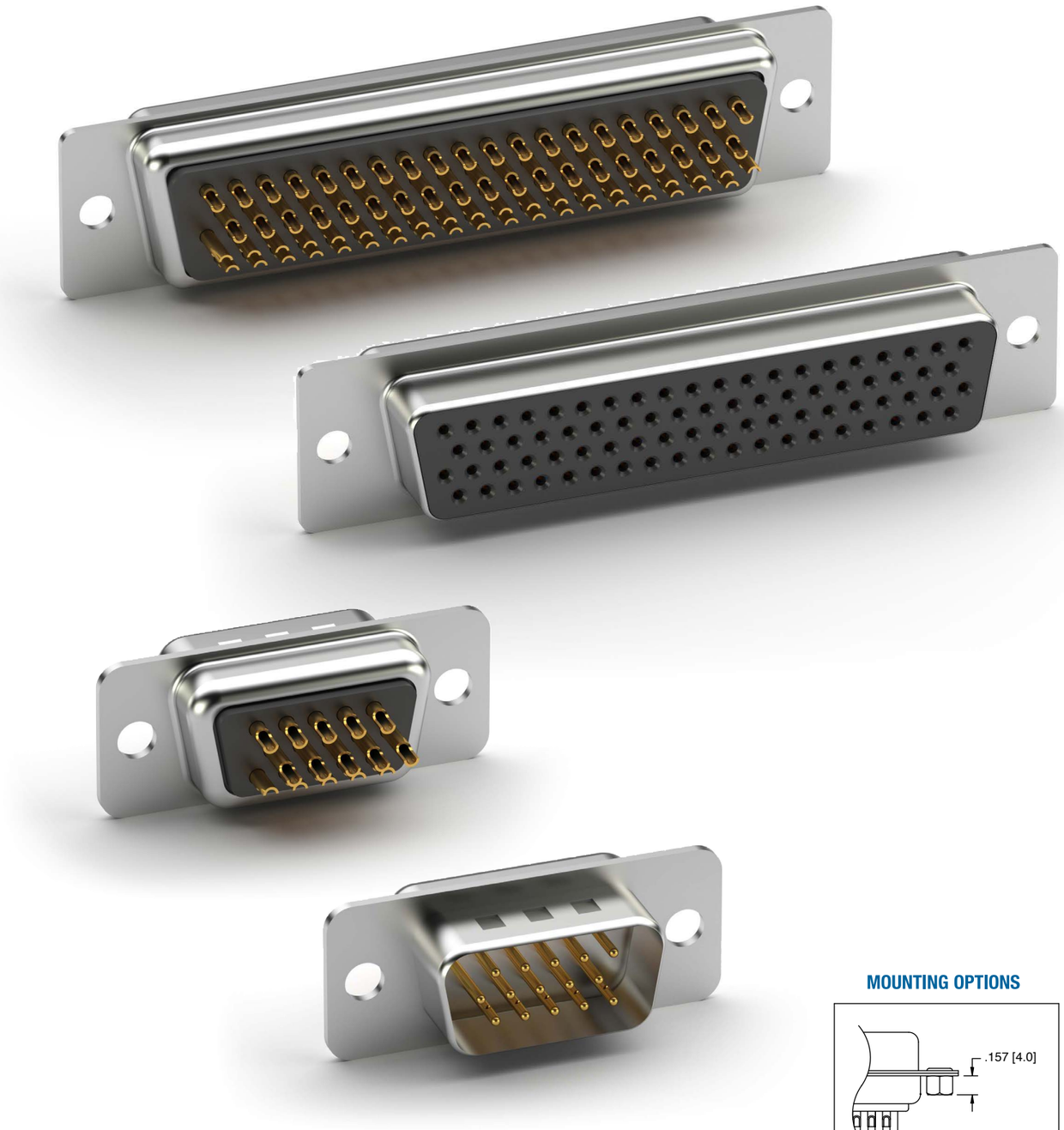
### MOUNTING OPTIONS




Recommended PCB Layout

# High Density D-Sub
SOLDER CUP TERMINATION

Adam Tech Solder Cup High Density D-Sub connectors are a popular interface for many I/O applications.  Offered in 15, 26, 44, 62 and 78 positions, they are a good choice for a low cost industry standard high density connection. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.



## FEATURES & SPECIFICATIONS

### FEATURES:
High Density pin count in standard size shell
Industry standard compatibility
Durable metal shell design
Precision formed contacts
Mating and mounting options

### MATING CONNECTORS:
Adam Tech high density D-Subminiatures and all industry standard high density D-Subminiature connectors.

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Insulator: PBT, 30% glass reinforced, rated UL94V-0
Insulator Colors: Black (White optional)
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

### Contact Plating:
Gold over Nickel underplate on contact area.

### Electrical:
Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Insertion force:  0.75 lbs max
Extraction force: 0.44 lbs min

### Temperature Rating:
Operating temperature: -55°C to +105°C

## PART NUMBER CONFIGURATION

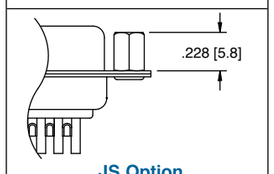
| HDT | 15 | - | PD | - | WT |
|---|---|---|---|---|---|
| SERIES | POSITIONS | | CONTACT TYPE | | OPTIONS |
| **HDT** = *High Density D-Sub* | **15** = *15 Position*<br>**26** = *26 Position*<br>**44** = *44 Position*<br>**62** = *62 Position*<br>**78** = *78 Position* | | **PD** = *Plug, Solder Cup*<br>**SD** = *Socket, Solder Cup* | | *Add designator(s) to end of part number*<br>**WT** = *White color insulator*<br>**SL** = *Bottom side Riveted #4-40 Clinch Nuts*<br>**JS** = *#4-40 Jackscrews installed* |

| PART NUMBER | TYPE | POSITIONS | GENDER | HIGH DENSITY D-SUB TYPE | PRODUCT DATA |
|---|---|---|---|---|---|
| HDTXX-PD | High Density D-Sub | Multiple Options | Plug | Solder Cup Termination | View |
| HDTXX-SD | High Density D-Sub | Multiple Options | Socket | Solder Cup Termination | View |
| HDTXX-SD-JS | High Density D-Sub | Multiple Options | Socket | Solder Cup Termination | View |

### MOUNTING OPTIONS



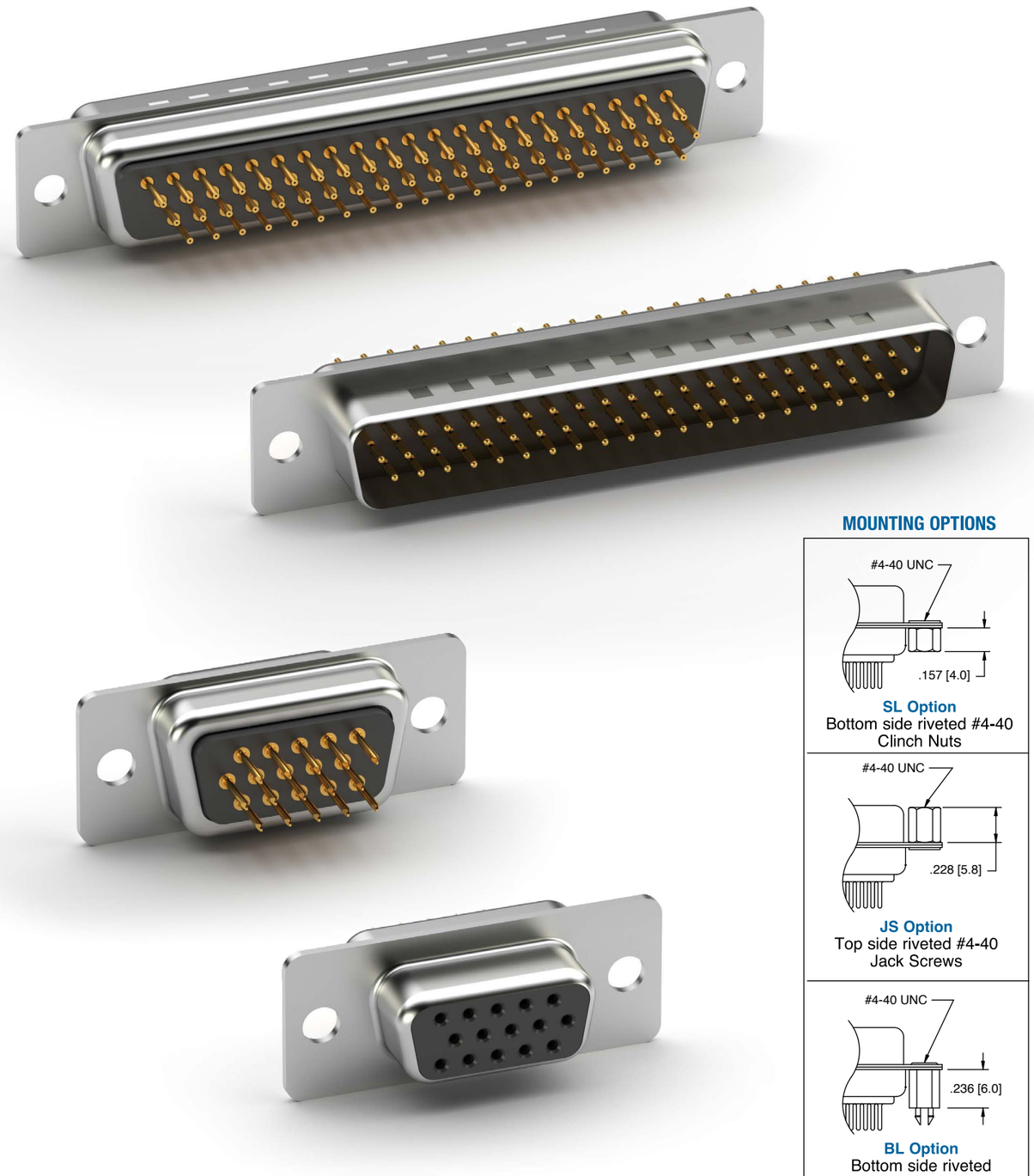

**SL Option**
Bottom side riveted #4-40 Clinch Nuts




**JS Option**
Top side riveted #4-40 Jack Screws

# High Density D-Sub
STRAIGHT PCB TAIL

Adam Tech Straight PCB tail High Density D-Sub connectors are a popular interface for many I/O applications. Offered in 15, 26, 44, 62 and 78 positions they are a good choice for a low cost industry standard high density connection. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.



## FEATURES & SPECIFICATIONS

### FEATURES:
High Density pin count in standard size shell
Industry standard compatibility
Durable metal shell design
Precision formed contacts
Variety of Mating and mounting options

### MATING CONNECTORS:
Adam Tech high density D-Subminiatures and all industry standard high density D-Subminiature connectors.

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T rated UL94V-0
Insulator Colors: Black (White optional)
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

### Contact Plating:
Gold over Nickel underplate on contact area.

### Electrical:
Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

### Temperature Rating:
Operating temperature: -55°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

## PART NUMBER CONFIGURATION

| HDT | 15 | - | PT | - | WT |
|---|---|---|---|---|---|

| SERIES | POSITIONS | CONTACT TYPE | OPTIONS |
|---|---|---|---|
| **HDT** = *High Density D-Sub* | **15** = *15 Position*<br>**26** = *26 Position*<br>**44** = *44 Position*<br>**62** = *62 Position*<br>**78** = *78 Position* | **PT** = *Plug, Straight PCB Tail*<br>**ST** = *Socket, Straight PCB Tail* | *Add designator(s) to end of part number*<br>**WT** = *White color insulator*<br>**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C*<br>**SL** = *Bottom side Riveted #4-40 Clinch Nuts*<br>**JS** = *#4-40 Jackscrews installed* |

| PART NUMBER | TYPE | POSITIONS | GENDER | HIGH DENSITY D-SUB TYPE | PRODUCT DATA |
|---|---|---|---|---|---|
| HDTXX-PT | High Density D-Sub | Multiple Options | Plug | Straight PCB Tail | View |
| HDTXX-ST | High Density D-Sub | Multiple Options | Socket | Straight PCB Tail | View |

### MOUNTING OPTIONS




**SL Option**
Bottom side riveted #4-40 Clinch Nuts

**JS Option**
Top side riveted #4-40 Jack Screws

**BL Option**
Bottom side riveted #4-40 Clinch Nuts with PCB Boardlocks

**Recommended PCB Layout**

# High Density D-Sub
RIGHT ANGLE PCB MOUNT

Adam Tech right angle PCB mount High Density D-Sub connectors are a popular interface for many I/O applications. Offered in 15, 26, 44, 62 and 78 positions they are a good choice for a low cost industry standard high density connection. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.



## FEATURES & SPECIFICATIONS

### FEATURES:
High Density in standard size shell
Industry standard compatibility
Durable metal shell design
Precision formed contacts
Variety of Mating and mounting options

### MATING CONNECTORS:
Adam Tech high density D-Subminiatures and all industry standard high density D-Subminiature connectors.

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T rated UL94V-0
Insulator Colors:
HDL Series: Black
HDVG Series: Blue
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

### Contact Plating:
Gold over Nickel underplate on contact area.

### Electrical:
Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 mΩ max initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

### Temperature Rating:
Operating temperature: -55°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

## PART NUMBER CONFIGURATION

| HDL | 15 | - | SL | - | B | - | |
|---|---|---|---|---|---|---|---|
| **SERIES** | **POSITIONS** | | **CONTACT TYPE** | | **MOUNTING OPTIONS** | | **OPTIONS** |
| **HDL** = *High Density D-Sub*<br>**HDVG** = *High Density VESA connector with recessed #9 pin and blue insulator* | **15** = *15 Position*<br>**26** = *26 Position*<br>**44** = *44 Position*<br>**62** = *62 Position*<br>**78** = *78 Position* | | **PL** = *Plug, Right Angle Mount*<br>**SL** = *Socket, Right Angle Mount* | | **A** = *#4-40 Jackscrews and forked boardlocks*<br>**B** = *#4-40 Flush threaded inserts and forked boardlocks*<br>**C** = *#4-40 Flush threaded inserts with removable jackscrews and forked boardlocks*<br>**D** = *Topside ground straps with screw holes* | | *Add designator(s) to end of part number*<br>**EMI** = *Ferrite filtered version for EMI / RFI suppression*<br>**F** = *Retention 4 prong boardlocks*<br>**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C*<br>**R** = *Round Riveted Jackscrews* |

| PART NUMBER | TYPE | POSITIONS | GENDER | HIGH DENSITY D-SUB TYPE | PRODUCT DATA |
|---|---|---|---|---|---|
| HDL15-SL-24 | High Density D-Sub | 15 | Socket | Right Angle PCB Mount | View |
| HDLXX-SL-B | High Density D-Sub | Multiple Options | Socket | Right Angle PCB Mount | View |
| HDLXX-SL-C | High Density D-Sub | Multiple Options | Socket | Right Angle PCB Mount | View |

# High Density D-Sub
## CRIMP AND POKE SYSTEM

Adam Tech Crimp and Poke High Density D-Sub connectors are a popular interface for many I/O applications. Offered in 15, 26, 44, 62 and 78 positions they are a low cost alternative to soldering a high density connector to cable. Contacts are crimped onto discrete wires and pushed into the connector body. The connector is comprised of a metal shell and plastic insulator and is available with a variety of mating options. The contacts are precision stamped and are available in a variety of platings.





## FEATURES & SPECIFICATIONS

### FEATURES:
High Density in standard size shell
Low cost no solder alternative
Industry standard compatibility
Durable metal shell design
Precision formed contacts
Variety of Mating and mounting options

### MATING CONNECTORS:
Adam Tech high density D-Subminiatures and all industry standard high density D-Subminiature connectors.

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Insulator: PBT, 30% glass reinforced, rated UL94V-0
Insulator Colors: Black (White optional)
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

### Contact Plating:
Gold over Nickel underplate on contact area.

### Electrical:
Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min
Recommended wire size: 22 to 28 Awg
Temperature Rating:
Operating temperature: -55°C to +105°C

## HOUSING PART NUMBER CONFIGURATION

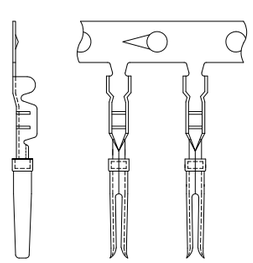
| HDT | 15 | - | PR | - | WT |
|---|---|---|---|---|---|
| **SERIES** | **POSITIONS** | | **CONTACT TYPE** | | **OPTIONS** |
| **HDT** = *High Density D-Sub* | **15** = *15 Position*<br>**26** = *26 Position*<br>**44** = *44 Position*<br>**62** = *62 Position*<br>**78** = *78 Position* | | **PR** = *Plug, Crimp and Poke*<br>**SR** = *Socket, Crimp and Poke* | | *Add designator(s) to end of part number*<br>**WT** = *White color insulator*<br>**SL** = *Riveted #4-40 Clinch Nuts*<br>**JS** = *Riveted #4-40 Jackscrews* |

## CONTACTS PART NUMBER CONFIGURATION

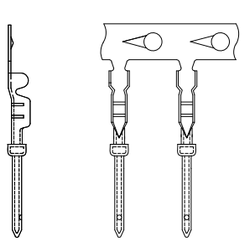
| HDCP | - | 01 | - | R |
|---|---|---|---|---|
| **CONTACT WIRE RANGE** | | **CONTACT TYPE** | | **PACKAGING** |
| **HDCP** = *Plug Contact*<br>**HDCS** = *Socket Contact* | | **01** = *24-26 AWG*<br>**02** = *20-22 AWG*<br>**03** = *28-30 AWG* | | **R** = *10,000 piece chain on reel*<br>**B** = *1000 pieces loose cut* |

| PART NUMBER | TYPE | POSITIONS | GENDER | HIGH DENSITY D-SUB TYPE | PRODUCT DATA |
|---|---|---|---|---|---|
| HDTXX-PR | High Density D-Sub | Multiple Options | Plug | Crimp and Poke System | View |
| HDTXX-SR | High Density D-Sub | Multiple Options | Socket | Crimp and Poke System | View |
| HDCP-01-R | High Density D-Sub - Contacts | | | | View |
| HDCS-01-R | High Density D-Sub - Contacts | | | | View |

HDCS SOCKET CONTACTS

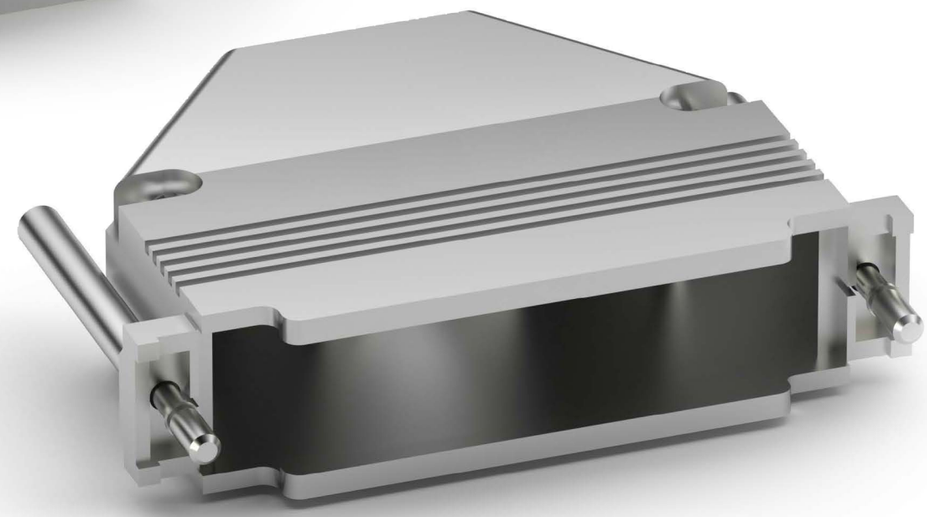


HDCP PLUG CONTACTS

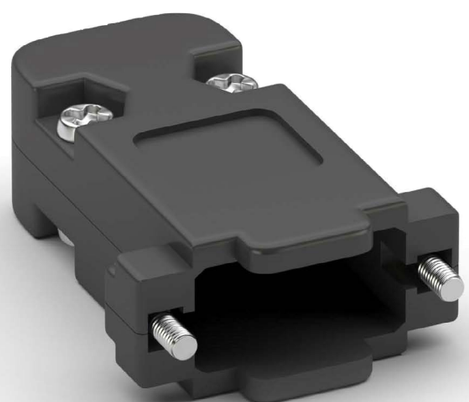


Adam Tech's line of D-Sub products are backed by a comprehensive offering of backshells, hardware, and jackscrews. These accessories add versatility and customizability to D-Sub connectors and are compatible with Adam Tech and all other industry standard D-Sub products.









## FEATURES & SPECIFICATIONS

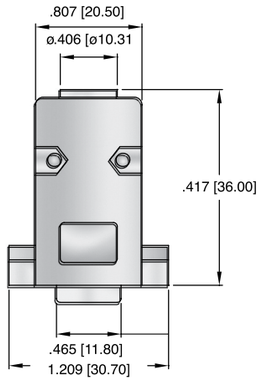
### FEATURES:
Compatible with most D-Sub products
Short or thumb screw backshells
Screw nut hardware
Brass jackscrews

### SPECIFICATIONS:

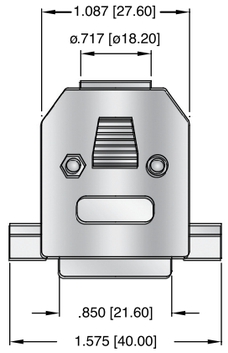
**Material:**
Insulator (backshells): ABS or aluminum die cast
Insulator color (backshells): Black or chrome plastic
Hardware (backshells): Steel, chromate plated; or copper alloy, nickel plated
Screw (hardware): Brass or copper, nickel plated
Nut (hardware): Copper or steel, nickel plated
Washer (hardware): Steel, nickel plated
Jackscrew: Brass, nickel plated

| PART NUMBER | TYPE | PRODUCT DATA |
|---|---|---|
| DXXX-HD-AL-TS | Backshells | View |
| DXXX-HD-PB-SS | Backshells | View |
| DXXX-HD-PB-TS | Backshells | View |
| DXXX-HD-PN-SS | Backshells | View |
| DXXX-HD-PN-TS | Backshells | View |
| HDW-023 | Hardware | View |
| HDW-024 | Hardware | View |
| JS-01 | Jackscrews | View |
| JS-02 | Jackscrews | View |

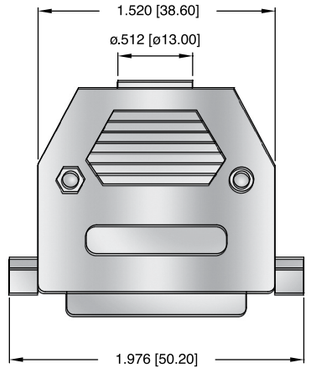
## BACKSHELLS
DHD SERIES



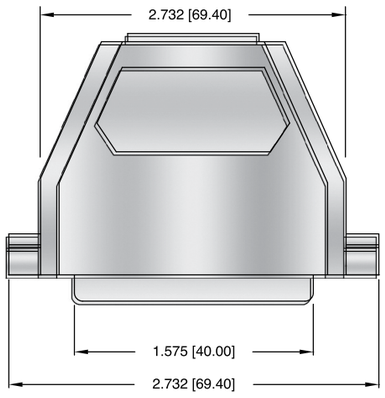

**DE09-HD-PN-(SS or TS)**



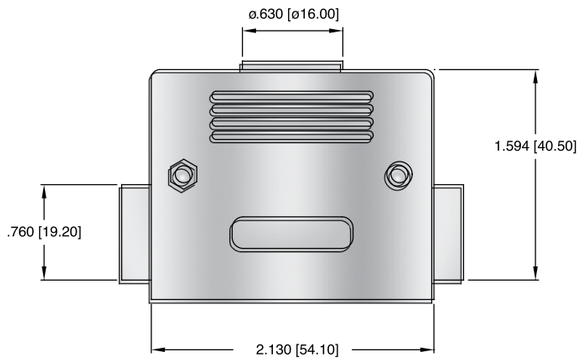

**DA15-HD-PN-(SS or TS)**




**DB25-HD-PN-(SS or TS)**



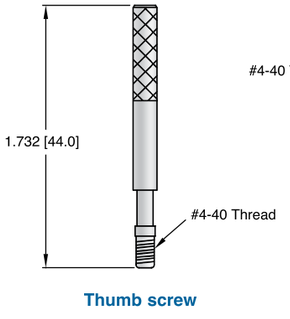

**DC37-HD-PN-(SS or TS)**



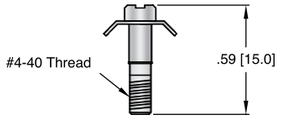

**DD50-HD-PN-(SS or TS)**

### ORDERING INFORMATION
**choose one from each category as shown in sample below**

| DE09-HD | PY | TS |
|---|---|---|
| **Hood Size** | **Hood Color** | **Hardware** |
| **DE09-HD -** 9P ood<br>**DA15-HD -** 15P ood<br>**DB25-HD -** 25P ood<br>**DC37-HD -** 37P ood<br>**DD50-HD -** 50P ood | **PY -** Gray Plastic<br>**PB -** Black Plastic<br>**PN -** Bright Chrome Plated Plastic<br>**AL -** Aluminum Cast | **SS -** Short Screw<br>**TS -** Thumb Screw |




**Thumb screw**

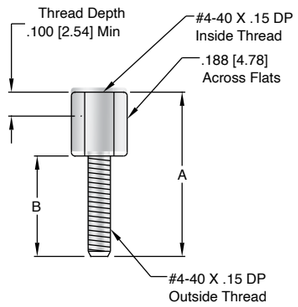



**Short screw**

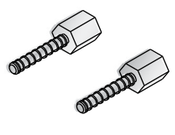
RoHS COMPLIANT

## HARDWARE & ACCESSORIES
HDW SERIES

### Jackscrews

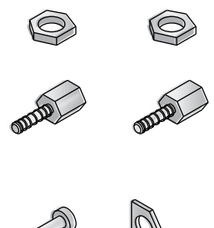



| JACKSCREW DIMENSIONS | | |
|---|---|---|
| **PART NUMBER** | **A** | **B** |
| JS-01 | .416 [10.60] | .226 [5.70] |
| JS-02 | .467 [11.86] | .270 [6.86] |
| JS-03 | .500 [12.70] | .313 [7.95] |
| JS-04 | .465 [11.81] | .226 [5.70] |



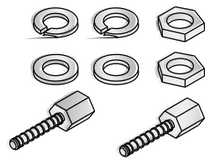
**HDW-031**

Set includes 2 #4-40 female jackscrews



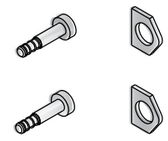
**HDW-024**

Set includes 2 #4-40 female jackscrews and 2 hex nuts



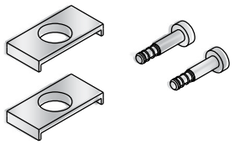
**HDW-023**

Set includes 2 #4-40 female jackscrews 2 flat washers, 2 split washers and 2 hex nuts



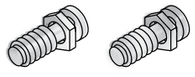
**HDW-028**

Screw retainer clip set includes 2 screw retainer clips and 2 retainer screws



**HDW-029**

Screw lock kit includes 2 screw locks and 2 retainer screws



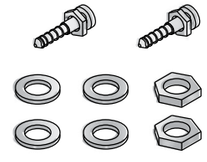
**HDW-044**

Sliding lock posts Set of 2



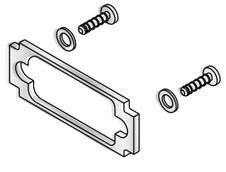
**HDW-043A**

Slide lock post set includes 2 posts, 2 washers and 2 lock-washers



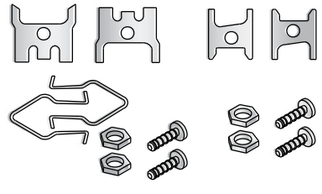
**HDW-045**

Slide lock post kit includes 2 posts, washers and hex nuts



**HDW-043-XX**

Slide lock assembly kit includes slide lock, screws and washers, Specify 9, 15, 25 or 37 position

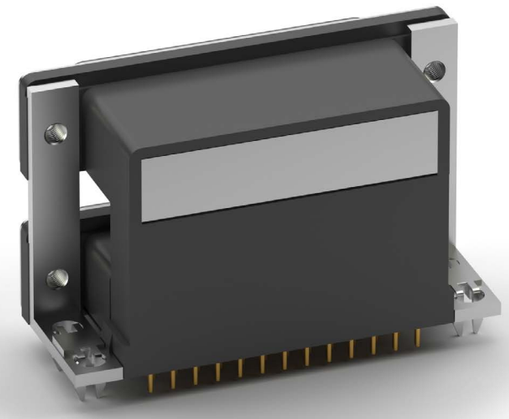


**HDW-041**

Spring latch set includes 1 pair of spring latches with holding hardware and 1 pair of notch clips with holding hardware

# D-Sub Connectors
## DUAL PORT, RIGHT ANGLE

Adam Tech Dual Port D-Sub connectors are a popular space saving interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions they are a good choice for a low cost industry standard connection and are ideal for PCB space saving applications. These connectors are manufactured with precision stamped contacts and are available in a number of connector combinations including same and mixed gender, mixed density and mixed interface. Options include a choice of contact plating and a variety of mating, mounting and grounding options.







## FEATURES & SPECIFICATIONS

### FEATURES:
Stacked space saving design
Industry standard compatibility
Durable metal shell design
Precision formed contacts
Variety of Mating and mounting options

### MATING CONNECTORS:
Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Insulator: PBT, 30% glass reinforced, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

### Contact Plating:
Gold over Nickel underplate on contact area.

### Electrical:
Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

### Temperature Rating:
Operating temperature: -55°C to +105°C

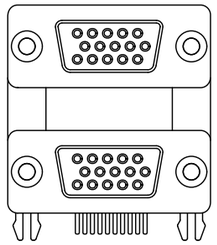
## PART NUMBER CONFIGURATION

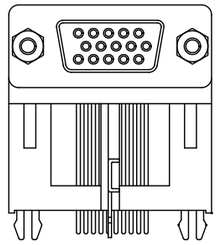
| DPD | 09 | - | 00 | - | B | 3 | - | JS |
|---|---|---|---|---|---|---|---|---|

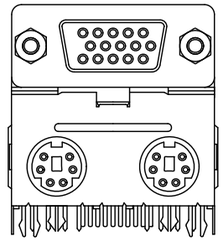
| SERIES | POSITIONS | TOP / BOTTOM GENDER | PORT SPACING | MOUNTING OPTIONS | OPTIONS |
|---|---|---|---|---|---|
| **DPD** = *Dual Port D-Sub* | **09** = *9 Position*<br>**15** = *15 Position*<br>**25** = *25 Position*<br>**37** = *37 Position*<br>**50** = *50 Position*<br>*x/x = Mixed positions customer specified* | **10** = *Plug top, receptacle bottom*<br>**11** = *Plug top and bottom*<br>**01** = *Receptacle top, plug bottom*<br>**00** = *Receptacle top and bottom* | **A** = *.900" (Dim. "E")*<br>**B** = *.750" (Dim. "E")*<br>**C** = *.625" (Dim. "E")* | **1** = *Through holes only*<br>**2** = *#4-40 threaded holes*<br>**3** = *Forked board locks* | *Add designator(s) to end of part number*<br>**JS** = *#4-40 Jackscrews installed*<br>**R** = *Rear boardlocks only* |

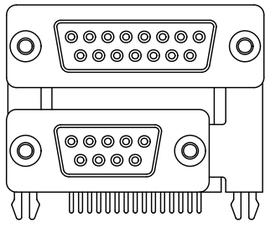
| PART NUMBER | TYPE | POSITIONS | GENDER | PCB MOUNTING OPTIONS | PRODUCT DATA |
|---|---|---|---|---|---|
| DPD-09-00-B1 | Dual Stacked, Right Angle | 9 | Socket Top and Bottom (Dual Stacked) | Through Hole Mounting | View |
| DPD-09-00-B2 | Dual Stacked, Right Angle | 9 | Socket Top and Bottom (Dual Stacked) | Through Hole Mounting | View |
| DPD-09-00-B3 | Dual Stacked, Right Angle | 9 | Socket Top and Bottom (Dual Stacked) | Forked Board Locks | View |
| DPD-09-01-A3 | Dual Stacked, Right Angle | 9 | Socket Top / Plug Bottom (Dual Stacked) | Forked Board Locks | View |
| DPD-09-01-B2 | Dual Stacked, Right Angle | 9 | Socket Top / Plug Bottom (Dual Stacked) | #4-40 Threaded Mounting Holes | View |
| DPD-09-01-B3 | Dual Stacked, Right Angle | 9 | Socket Top / Plug Bottom (Dual Stacked) | Forked Board Locks | View |
| DPD-09-10-B3 | Dual Stacked, Right Angle | 9 | Plug Top / Receptacle Bottom (Dual Stacked) | Forked Board Locks | View |
| DPD-09-11-B3 | Dual Stacked, Right Angle | 9 | Plug Top and Bottom (Dual Stacked) | Forked Board Locks | View |
| DPD-25-00-A3 | Dual Stacked, Right Angle | 25 | Socket Top and Bottom (Dual Stacked) | Forked Board Locks | View |
| DPD-25-00-B3 | Dual Stacked, Right Angle | 25 | Socket Top and Bottom (Dual Stacked) | Forked Board Locks | View |
| DPD-25-01-B3 | Dual Stacked, Right Angle | 25 | Socket Top / Plug Bottom (Dual Stacked) | Forked Board Locks | View |
| DPD-25-11-B3 | Dual Stacked, Right Angle | 25 | Plug Top and Bottom (Dual Stacked) | Forked Board Locks | View |
| DPD-XX-00-A1 | Dual Stacked, Right Angle | Multiple Options | Socket Top and Bottom (Dual Stacked) | Through Hole Mounting | View |
| DPD-XX-01-A1 | Dual Stacked, Right Angle | Multiple Options | Socket Top / Plug Bottom (Dual Stacked) | Through Hole Mounting | View |
| DPD-XX-10-X3 | Dual Stacked, Right Angle | Multiple Options | Plug Top / Receptacle Bottom (Dual Stacked) | Through Hole Mounting | View |
| DPD-XX-11-A1 | Dual Stacked, Right Angle | Multiple Options | Plug Top and Bottom (Dual Stacked) | Through Hole Mounting | View |

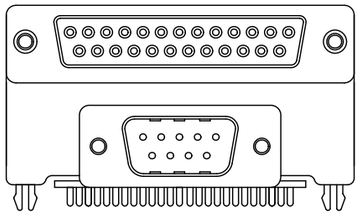
## DUAL PORT VARIATIONS
### DPD SERIES

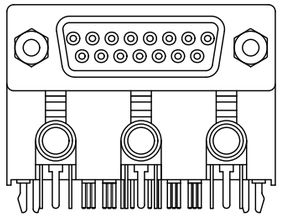

15P HD D-Sub over 15P HD D-Sub

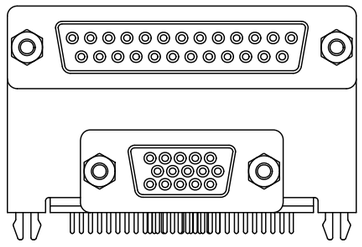

15P HD D-Sub Elevated

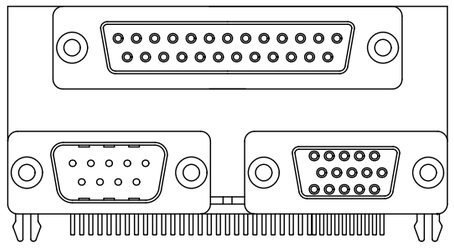

15P HD D-Sub over Dual Mini DINs

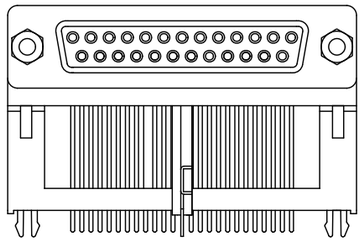

15P D-Sub over 9P D-Sub

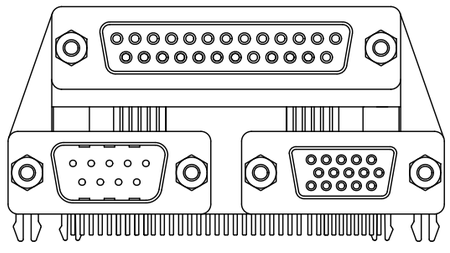

25P D-Sub over 9P D-Sub

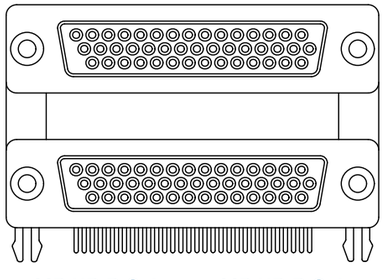

15P D-Sub over Ganged Stereo Jacks

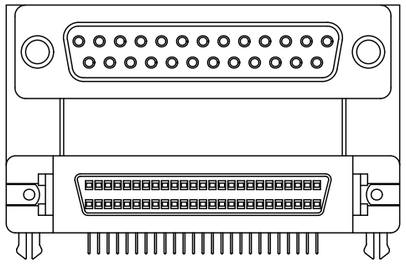

25P D-Sub over HD 15P D-Sub


25P D-Sub over 9P D-Sub & HD 15P D-Sub

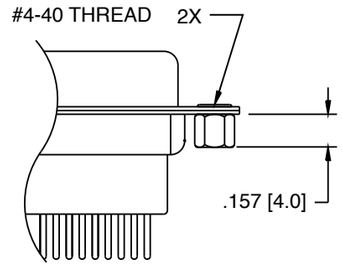

25P D-Sub Elevated


25P D-Sub over 9P D-Sub & HD 15P D-Sub

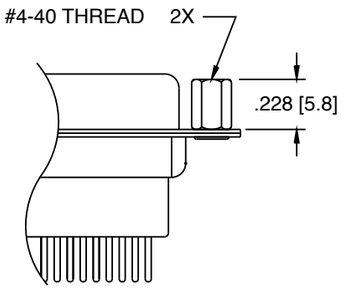

44P HD D-Sub over 44P HD D-Sub


25P D-Sub over 50P SCSI II

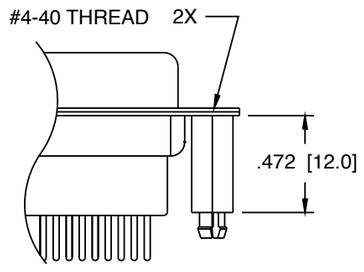
## HIGH PROFILE STRAIGHT PCB TAIL
### MOUNTING OPTIONS



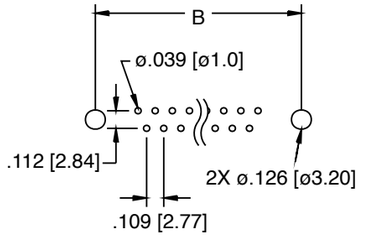

**SL Option**
Bottom side riveted #4-40
Clinch Nuts




**JS Option**
Top side riveted #4-40
Jack Screws




**BL Option**
#4-40 Threaded Boardlocks

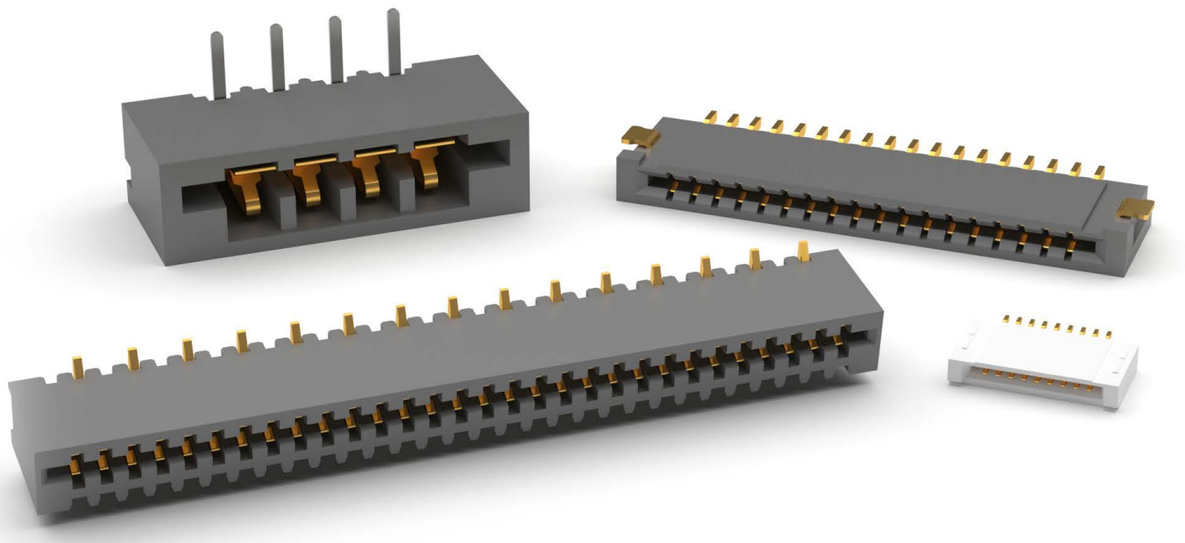



**Recommended PCB Layout**

# Flex Circuit Connectors

## LIF FLEX CIRCUIT CONNECTORS (LOW INSERTION FORCE)

Adam Tech PCB Series Flexible Printed Circuit (FPC) and Flexible Flat Cable (FFC) connectors are a LIF (low insertion force) design that provides a low cost, fast, easy and reliable connection of flexible printed circuits to a PCB. Adam Tech's special contact design preserves conductor integrity while producing a stable, high pressure connection. This series includes single and dual row versions in 2.54mm, 1.25mm, 1.00mm & 0.50mm centerlines with vertical or horizontal orientations.



| PART NUMBER | CENTERLINE | ENTRY ANGLE | PLATING | PRODUCT DATA |
|---|---|---|---|---|
| PCB-B-XX-SA-25 | 1.25mm | Side Entry | Tin | View |
| PCB-B-XX-T-25 | 1.25mm | Top Entry | Tin | View |
| PCB-C-09-T-SMT | 1.00mm | Top Entry | Tin | View |
| PCB-C-12-SA-20 | 1.00mm | Side Entry | Tin | View |
| PCB-C-18-SA-SMT | 1.00mm | Side Entry | Tin | View |
| PCB-C-18-T-20 | 1.00mm | Top Entry | Tin | View |
| PCB-C-XX-SA-20 | 1.00mm | Side Entry | Tin | View |
| PCB-C-XX-T-20 | 1.00mm | Top Entry | Tin | View |
| PCB-C-XX-T-SMT | 1.00mm | Top Entry | Tin | View |
| PCB-C-XX-T-SMT-SG | 1.00mm | Top Entry | Tin | View |
| PCB-C5-XX-SA-SMT | 1.00mm | Side Entry | Tin | View |

## FEATURES & SPECIFICATIONS

### FEATURES:
Superior contact design protects conductors
High pressure contacts
Single or dual row versions
Choice of 2.54mm, 1.25mm, 1.00mm & 0.50mm centerlines

### MATING FPC & FFC CABLE:
Mates with flat flexible cable and flexible printed circuits with thickness of 0.3mm

### PACKAGING:
Anti-ESD plastic tubes or trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Standard insulator: PBT, Glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator color: Black
Contacts: Phosphor Bronze

### Contact Plating:
Tin over copper underplate

### Electrical:
Operating voltage: 100V AC max.
Current rating: .039" Spacing: 0.5 Amp max.
.049" Spacing: 1 Amp max
.100" Spacing: 3 Amps max
Contact resistance: 30 mΩ max. initial
Insulation resistance: 500 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

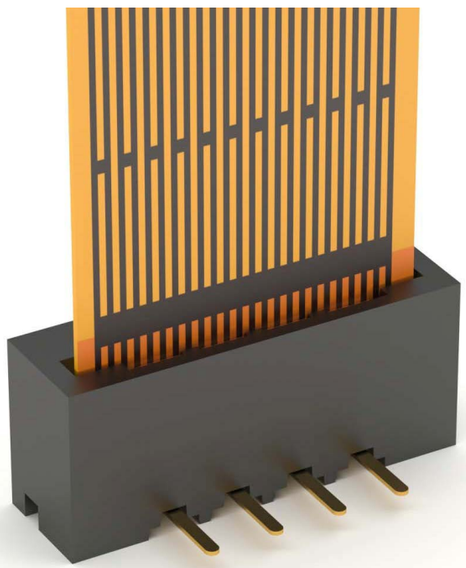
### Mechanical:
Insertion Force: 5 oz max
Withdrawal Force: 3 oz min

### Temperature Rating:
Operating temperature: -40°C to +85°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

## PART NUMBER CONFIGURATION

**PCB - A - 02 - T - 20 - HT**

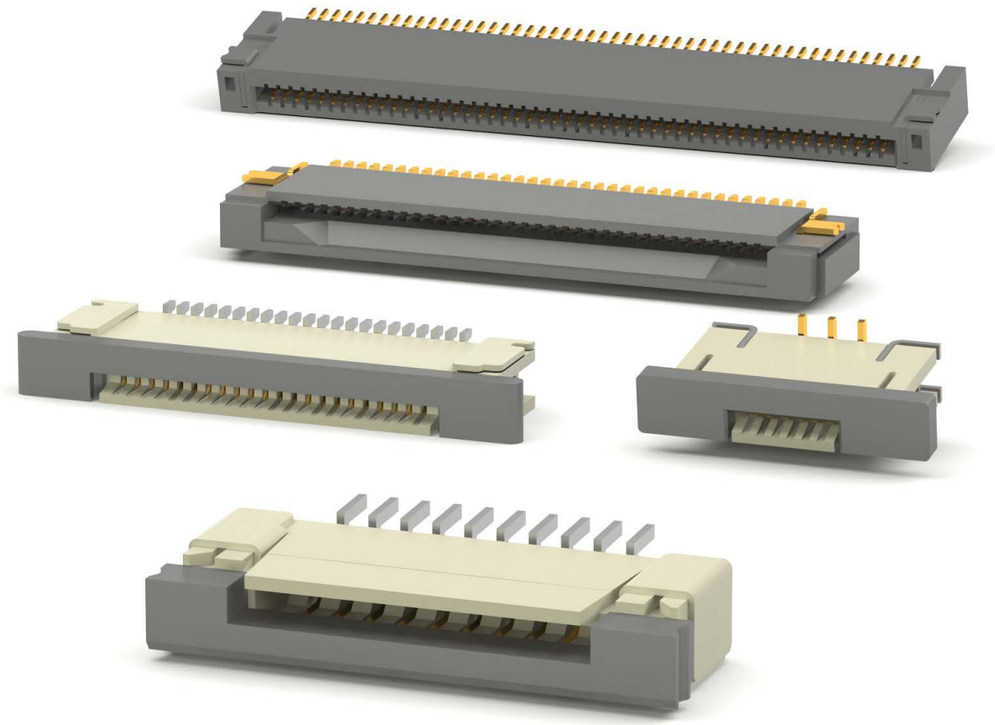
| SERIES | TYPE | POSITIONS | ENTRY ANGLE | ROW SPACING | OPTIONS |
|---|---|---|---|---|---|
| **PCB** = *LIF Flex Circuit Connector* | **A** = *2.54mm centerline in-line footprint*<br>**B** = *1.25mm centerline staggered footprint*<br>**C** = *1.00mm centerline staggered footprint*<br>**D** = *1.00mm centerline inline footprint*<br>**E** = *0.50mm centerline horizontal SMT* | **02** *thru* **21** | **T** = *Top entry*<br>**SA** = *Side entry*<br>**SB** = *Reverse side entry (.100" centerline only)* | *Blank = Single Row*<br>**20** = *2.00mm PCB Row Spacing (Type C)*<br>**25** = *2.5mm PCB Row Spacing (Type B)*<br>**SMT** = *Surface Mount (Type B, C)* | *Add designator(s) to end of part number*<br>**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C* |



# Flex Circuit Connectors

## ZIF FLEX CIRCUIT CONNECTORS (ZERO INSERTION FORCE)

Adam Tech PCA Series Flexible Printed Circuit (FPC) and Flexible Flat Cable (FFC) connectors are ZIF (zero insertion force) connectors designed to provide a fast, easy, reliable method to make a connection of flexible printed circuits to a PCB. Adam Tech's special contact design completely preserves conductor integrity by eliminating all wiping action while making connection. Flex circuitry enters the connector and the connector cap is pressed down to capture the flex circuit producing a stable, high pressure connection. Raising the cap releases the pressure for exchange or replacement of circuitry. This series includes single and dual row versions in thru-hole or SMT mounting in vertical or horizontal orientations.



## FEATURES & SPECIFICATIONS

### FEATURES:

Superior contact design protects conductors
High pressure contacts
Single or dual row versions
Choice of .3mm, .5mm, .8mm, 1mm & 1.25mm centerlines

### MATING FPC & FFC:

Mates with .3mm, .5mm, .8mm, 1mm & 1.25mm centerline
flat flexible circuits with thickness range of 0.1mm to 0.3mm

### PACKAGING:

Anti-ESD plastic tubes or Tape and Reel

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:

Hi-Temp Insulator: LCP, Glass reinforced, rated UL94V-0
Insulator color: Natural
Contacts: Phosphor Bronze

### Contact Plating:

Tin over copper underplate overall

### Electrical:

Operating voltage: 100V AC max.
Current rating: .020" Spacing: 0.4 Amps max.
.031" & .039" Spacing: 0.5 Amps max
.049" Spacing: 1 Amp max
Contact resistance: 30 mΩ max. initial
Insulation resistance: 500 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

### Mechanical:

Insertion Force: 0 oz max
Withdrawal Force: 13 oz min

### Temperature Rating:

Operating temperature: -40°C to +85°C
Soldering process temperature: 260°C

## PART NUMBER CONFIGURATION

**PCA- 1 - 03 - V - 3 - 20 - G**

| SERIES | TYPE | POSITIONS | ENTRY ANGLE | FLEX CIRCUIT THICKNESS | PCB ROW SPACING | OPTIONS |
|---|---|---|---|---|---|---|
| **PCA** = *ZIF Flex Circuit Connector* | **1** = *1.25mm centerline thru-hole*<br>**2** = *1.00mm centerline SMT (body height 2.70mm)*<br>**2B** = *1.00mm centerline SMT (body height 1.2mm)*<br>**3** = *1.00mm centerline thru-hole*<br>**4** = *1.25mm centerline SMT*<br>**5** = *.8mm centerline SMT*<br>**6** = *.5mm centerline SMT (body height 2.0mm)*<br>**6A** = *.5mm centerline SMT (body height 1.5mm)*<br>**6B** = *.5mm centerline SMT (body height 1.2mm)*<br>**6C** = *.5mm centerline SMT (body height 1.0mm)*<br>**6F** = *.5mm centerline SMT (body height 1.0mm)*<br>**7** = *.3mm centerline SMT* | **03** *thru* **30** | **V** = *Top entry*<br>**HL** = *Side entry, lower contact*<br>**HU** = *Side entry, upper contact* | **3** = *0.1mm – 0.3mm (standard for all types)* | *Blank = SMT*<br>**20** = *2.0mm* | *Add designator(s) to end of part number*<br>**G** = *Gold plated contacts*<br>**T/R** = *Tape and reel packaging* |

| PART NUMBER | CENTERLINE | ENTRY ANGLE | PLATING | PRODUCT DATA |
|---|---|---|---|---|
| PCA-1-XX-V-3-20 | 1.25mm | Top Entry Thru Hole | Tin | View |
| PCA-2-XX-HU-3-G | 1.00mm | Side Entry, Upper Contact | Gold | View |
| PCA-2-XX-V-3 | 1.00mm | Top Entry SMT | Tin | View |
| PCA-2FA-XX-HL-3 | 1.00mm | Side Entry, Lower Contact | Tin | View |
| PCA-5-XX-HU-3-G | 0.8mm | Side Entry, Upper & Lower Contact | Gold | View |
| PCA-6-LA-XX-HL-3 | 0.5mm | Side Entry, Lower Contact | Tin | View |

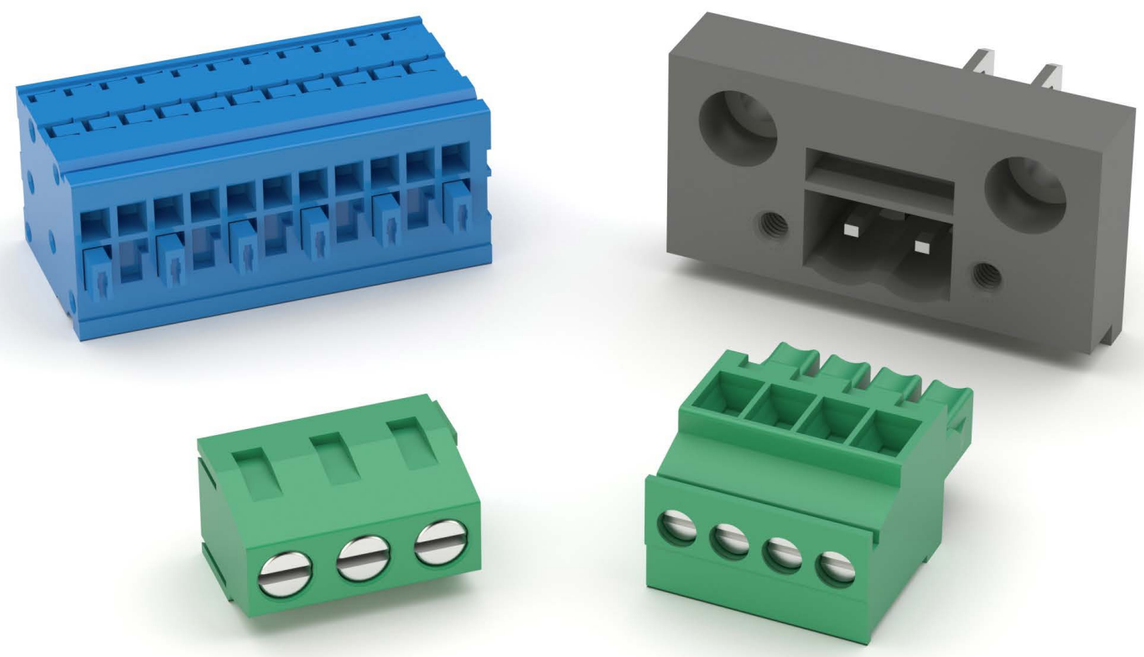
| PART NUMBER | CENTERLINE | ENTRY ANGLE | PLATING | PRODUCT DATA |
|---|---|---|---|---|
| PCA-6-LA-XX-HL-3-T/R | 0.5mm | Side Entry, Lower Contact | Tin | View |
| PCA-6-LA-XX-HU-3 | 0.5mm | Side Entry, Upper Contact | Tin | View |
| PCA-6-LA-XX-HU-3-T/R | 0.5mm | Side Entry, Upper Contact | Tin | View |
| PCA-6-XX-HU-3-G | 0.5mm | Side Entry, Upper Contact | Gold | View |
| PCA-6-XX-V-3-G | 0.5mm | Top Entry SMT | Gold | View |
| PCA-6L-XX-HU-3 | 0.5mm | Side Entry, Upper Contact | Tin | View |

| PART NUMBER | CENTERLINE | ENTRY ANGLE | PLATING | PRODUCT DATA |
|---|---|---|---|---|
| PCA-6MA-XX-HD-3-G | 0.5mm | Side Entry, Dual Contact | Gold | View |
| PCA-6MA-XX-HD-3-G-T/R | 0.5mm | Side Entry, Dual Contact | Gold | View |
| PCA-7A-XX-HL-3-G-TR | 0.3mm | Side Entry, Lower Contact | Gold | View |
| PCA-7F-XX-HL-3-G | 0.3mm | Side Entry, Lower Contact | Gold | View |
| PCA-7G-XX-HD-3-G | 0.3mm | Side Entry, Dual Contact | Gold | View |

# Euro Blocks

WIRE TO BOARD, HEADERS, PLUGS & SOCKETS

Adam Tech EB Series Euro Blocks are a broad range of PCB mounted blocks in various sizes and profiles with pitches ranging from 3.50mm up to 15.00mm. Included are types that have wire entry from Top, Side, or Side Angle. Two piece 'pluggable' versions and 'Lever Actuated' styles are also available. Each contains a unique wire guard design and is precision manufactured for smooth operation and ease of use.



## FEATURES & SPECIFICATIONS

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized & CSA Certified, File no. E333935

### SPECIFICATIONS:

### Material:
Insulator: PBT or Nylon, glass reinforced, rated UL94V-0
Insulator Color: Green, Black (Blue and Gray optional)
Metal cage: Brass, tin plated
Screw: Steel, Galvanized or Chromatized
Wire Guard: Stainless Steel, Tin plated

### Electrical:
Operating voltage: 250V AC max.
Current rating: 7 to 15 Amp max
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1500V AC for 1 minute

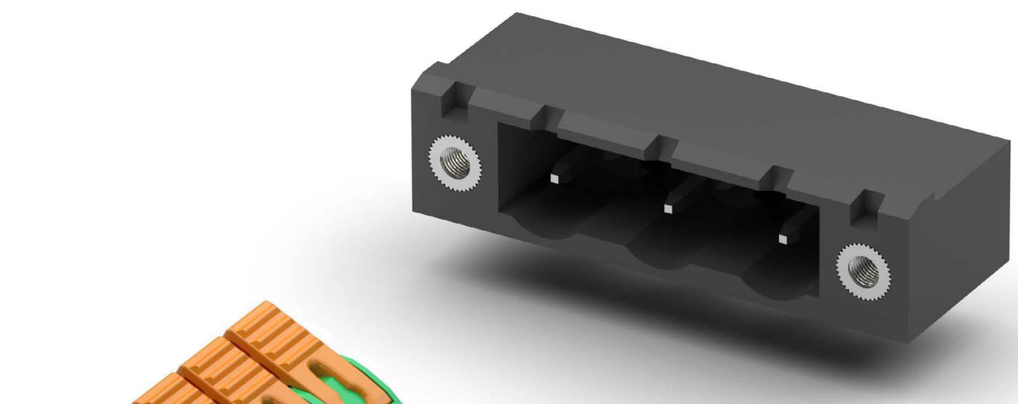
### Mechanical:
Recommended wire size:
EBC & EBF Series: 16 to 26 Awg
EBA, EBB, EBD, EBE, & EBJ Series: 14 to 22 Awg
EBH & EBP Series: 12 to 24 Awg
EB108 Series: 18 to 24 Awg
EB109 Series: 10 to 24 Awg
Mating durability: 500 Cycles min.

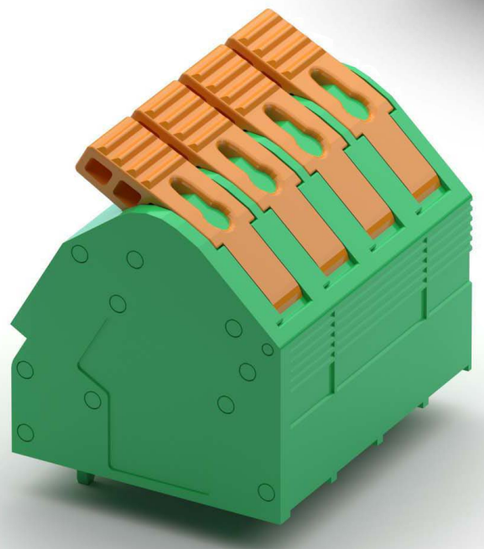
### Temperature Rating:
Operating temperature: -55°C to +105°C

## PART NUMBER CONFIGURATION

**EBA - 02 - A - C**

| SERIES | NO. OF POLES | CENTERLINE SPACING | OPTIONS: |
|---|---|---|---|
| **EBA** = .492" Straight | **02** thru **24** | **A** = .138" [3.50mm] | *Add designator(s) to end of part number* |
| **EBB** = .394" Straight | | **B** = .150" [3.81mm] | **C** = Closed sides, body styles EBP & EBQ |
| **EBC** = .327" Straight | | **C** = .197" [5.00mm] | **E** = Mounting ears, body styles EBH & EBK |
| **EBD** = .354" Right Angle | | **D** = .200" [5.08mm] | |
| **EBE** = .295" Right Angle | | **E** = .276" [7.00mm] | |
| **EBF** = .275" Right Angle | | **G** = .300" [7.62mm] | |
| **EBG** = .472" Angled | | **H** = .394" [10.00mm] | |
| **EBH** = .590" Plugable | | **J** = .400" [10.16mm] | |
| **EBJ** = .433" Plugable | | **K** = .591" [15.00mm] | |
| **EBK** = .440" Plugable | | **S** = .374" [9.50mm] | |
| **EBP** = Pin Header, Straight | | | |
| **EBQ** = Header, Right Angle | | | |
| **EBR** = Pin Header, Straight | | | |
| **EBS** = Header, Right Angle | | | |
| **EBT** = Pin Header, Straight | | | |
| **EBV** = Pin Header, Straight | | | |
| **EBW** = .335" Straight | | | |
| **EBV2** = Stacked Euro Blocks | | | |
| **EB108** = .342" Straight | | | |
| **EB109** = .850" Straight | | | |





**STANDARD BODY COLORS:**

**Black:** *Series EBA, EBB, EBC, EBD, EBE, EBF, EBG, EBJ, EBT*
**Green:** *Series EBH, EBP, EBQ, EBK, EBR, EBS, EBV, EBM, EBN, EBW, TSE, EB108, EB109*
*Consult factory for additional colors*

# Euro Blocks Wire to Board

| PART NUMBER | TYPE | CENTERLINE | ORIENTATION | DATA SHEET |
|---|---|---|---|---|
| EB133-02-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EB142A-02-A-90 | Wire to Board | .138" [3.50mm] | Right Angle | View |
| EB142A-03-A-90 | Wire to Board | .138" [3.50mm] | Right Angle | View |
| EB142A-04-A-180 | Wire to Board | .138" [3.50mm] | Vertical | View |
| EB142A-04-A-90 | Wire to Board | .138" [3.50mm] | Right Angle | View |
| EB142A-06-A-90 | Wire to Board | .138" [3.50mm] | Right Angle | View |
| EB147A-02-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EB147A-02-D | Wire to Board | .200" [5.08mm] | Right Angle | View |
| EB147A-02-M | Wire to Board | .295" [7.50mm] | Right Angle | View |
| EB147A-03-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EB147A-03-D | Wire to Board | .200" [5.08mm] | Right Angle | View |
| EB147A-03-M | Wire to Board | .295" [7.50mm] | Right Angle | View |
| EB147A-04-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EB147A-04-D | Wire to Board | .200" [5.08mm] | Right Angle | View |
| EB147A-04-M | Wire to Board | .295" [7.50mm] | Right Angle | View |
| EB147A-05-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EB147A-05-D | Wire to Board | .200" [5.08mm] | Right Angle | View |
| EB147A-05-M | Wire to Board | .295" [7.50mm] | Right Angle | View |
| EB147A-06-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EB147A-06-D | Wire to Board | .200" [5.08mm] | Right Angle | View |
| EB147A-06-M | Wire to Board | .295" [7.50mm] | Right Angle | View |
| EB163A-02-A | Wire to Board | .138" [3.50mm] | Right Angle | View |
| EB163A-02-A-180 | Wire to Board | .138" [3.50mm] | Vertical | View |
| EB163A-02-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EB163A-02-C-180 | Wire to Board | .197" [5.00mm] | Vertical | View |
| EB163A-03-A | Wire to Board | .138" [3.50mm] | Right Angle | View |
| EB163A-03-A-180 | Wire to Board | .138" [3.50mm] | Vertical | View |
| EB163A-03-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EB163A-03-C-180 | Wire to Board | .197" [5.00mm] | Vertical | View |
| EB163A-04-A | Wire to Board | .138" [3.50mm] | Right Angle | View |
| EB163A-04-A-180 | Wire to Board | .138" [3.50mm] | Vertical | View |
| EB163A-04-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EB163A-04-C-180 | Wire to Board | .197" [5.00mm] | Vertical | View |
| EB163A-05-A | Wire to Board | .138" [3.50mm] | Right Angle | View |
| EB163A-05-A-180 | Wire to Board | .138" [3.50mm] | Vertical | View |
| EB163A-05-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EB163A-05-C-180 | Wire to Board | .197" [5.00mm] | Vertical | View |
| EB163A-06-A | Wire to Board | .138" [3.50mm] | Right Angle | View |
| EB163A-06-A-180 | Wire to Board | .138" [3.50mm] | Vertical | View |
| EB163A-06-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EB163A-06-C-180 | Wire to Board | .197" [5.00mm] | Vertical | View |
| EB167A-02-H | Wire to Board | .394" [10.00mm] | Right Angle | View |
| EB167A-02-M | Wire to Board | .295" [7.50mm] | Right Angle | View |
| EB167A-02-M-180 | Wire to Board | .295" [7.50mm] | Vertical | View |
| EB167A-03-H | Wire to Board | .394" [10.00mm] | Right Angle | View |
| EB167A-03-M | Wire to Board | .295" [7.50mm] | Right Angle | View |
| EB167A-03-M-180 | Wire to Board | .295" [7.50mm] | Vertical | View |
| EB167A-04-H | Wire to Board | .394" [10.00mm] | Right Angle | View |
| EB167A-04-M | Wire to Board | .295" [7.50mm] | Right Angle | View |
| EB167A-04-M-180 | Wire to Board | .295" [7.50mm] | Vertical | View |
| EB167A-05-H | Wire to Board | .394" [10.00mm] | Right Angle | View |
| EB167A-05-M | Wire to Board | .295" [7.50mm] | Right Angle | View |
| EB167A-05-M-180 | Wire to Board | .295" [7.50mm] | Vertical | View |
| EB167A-06-H | Wire to Board | .394" [10.00mm] | Right Angle | View |
| EB167A-06-M | Wire to Board | .295" [7.50mm] | Right Angle | View |
| EB167A-06-M-180 | Wire to Board | .295" [7.50mm] | Vertical | View |
| EB171A-02-H | Wire to Board | .394" [10.00mm] | Right Angle | View |
| EB171A-03-H | Wire to Board | .394" [10.00mm] | Right Angle | View |
| EB171A-04-H | Wire to Board | .394" [10.00mm] | Right Angle | View |
| EB171A-05-H | Wire to Board | .394" [10.00mm] | Right Angle | View |
| EB171A-06-H | Wire to Board | .394" [10.00mm] | Right Angle | View |
| EB176-A-02-V-RA-TSMT | Wire to Board | .098" [2.50mm] | Right Angle | View |
| EB20-02-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EB20-03-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EB21A-02-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EB21A-02-D | Wire to Board | .200" [5.08mm] | Right Angle | View |
| EB21A-02-D-DA | Wire to Board | .200" [5.08mm] | 45° Angle | View |
| EB21A-03-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EB21A-03-D | Wire to Board | .200" [5.08mm] | Right Angle | View |
| EB21A-04-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EB21A-04-D | Wire to Board | .200" [5.08mm] | Right Angle | View |
| EB21A-05-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EB21A-05-D | Wire to Board | .200" [5.08mm] | Right Angle | View |
| EB21A-06-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EB21A-06-D | Wire to Board | .200" [5.08mm] | Right Angle | View |
| EB59A-02-A | Wire to Board | .138" [3.50mm] | Right Angle | View |
| EB59A-02-V | Wire to Board | .098" [2.50mm] | Right Angle | View |
| EB59A-03-A | Wire to Board | .138" [3.50mm] | Right Angle | View |
| EB59A-03-V | Wire to Board | .098" [2.50mm] | Right Angle | View |
| EB59A-04-A | Wire to Board | .138" [3.50mm] | Right Angle | View |
| EB59A-04-V | Wire to Board | .098" [2.50mm] | Right Angle | View |
| EB59A-05-A | Wire to Board | .138" [3.50mm] | Right Angle | View |
| EB59A-05-V | Wire to Board | .098" [2.50mm] | Right Angle | View |
| EB7-02-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EB7-03-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EB7-04-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EB7-05-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EBA-02-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EBA-02-D-BU-01 | Wire to Board | .200" [5.08mm] | Right Angle | View |
| EBA-03-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EBA-03-D-BU-01 | Wire to Board | .200" [5.08mm] | Right Angle | View |
| EBWA-02-A | Wire to Board | .138" [3.50mm] | Right Angle | View |
| EBWA-02-B | Wire to Board | .150" [3.81mm] | Right Angle | View |
| EBWA-03-A | Wire to Board | .138" [3.50mm] | Right Angle | View |
| EBWA-03-B | Wire to Board | .150" [3.81mm] | Right Angle | View |
| EBWA-04-A | Wire to Board | .138" [3.50mm] | Right Angle | View |
| EBWA-04-B | Wire to Board | .150" [3.81mm] | Right Angle | View |
| EBWA-05-A | Wire to Board | .138" [3.50mm] | Right Angle | View |
| EBWA-05-B | Wire to Board | .150" [3.81mm] | Right Angle | View |
| EBWA-06-A | Wire to Board | .138" [3.50mm] | Right Angle | View |
| EBWA-06-B | Wire to Board | .150" [3.81mm] | Right Angle | View |

## Euro Block Headers

| PART NUMBER | TYPE | CENTERLINE | ORIENTATION | DATA SHEET |
|---|---|---|---|---|
| EB3-02-B | Headers | .150" [3.81mm] | Right Angle | View |
| EB3-02-B-180 | Headers | .150" [3.81mm] | Vertical | View |
| EB3-03-B | Headers | .150" [3.81mm] | Right Angle | View |
| EB3-03-B-180 | Headers | .150" [3.81mm] | Vertical | View |
| EB3-04-B | Headers | .150" [3.81mm] | Right Angle | View |
| EB3-04-B-180 | Headers | .150" [3.81mm] | Vertical | View |
| EB3-05-B | Headers | .150" [3.81mm] | Right Angle | View |
| EB3-05-B-180 | Headers | .150" [3.81mm] | Vertical | View |
| EBPA-02-C | Headers | .197" [5.00mm] | Vertical | View |
| EBPA-02-C-C | Headers | .197" [5.00mm] | Vertical | View |
| EBPA-02-D | Headers | .200" [5.08mm] | Vertical | View |
| EBPA-02-D-C | Headers | .200" [5.08mm] | Vertical | View |
| EBPA-03-C | Headers | .197" [5.00mm] | Vertical | View |
| EBPA-03-C-C | Headers | .197" [5.00mm] | Vertical | View |
| EBPA-03-D | Headers | .200" [5.08mm] | Vertical | View |
| EBPA-03-D-C | Headers | .200" [5.08mm] | Vertical | View |
| EBPA-04-C | Headers | .197" [5.00mm] | Vertical | View |
| EBPA-04-C-C | Headers | .197" [5.00mm] | Vertical | View |
| EBPA-04-D | Headers | .200" [5.08mm] | Vertical | View |

| PART NUMBER | TYPE | CENTERLINE | ORIENTATION | DATA SHEET |
|---|---|---|---|---|
| EBPA-04-D-C | Headers | .200" [5.08mm] | Vertical | View |
| EBPA-05-C | Headers | .197" [5.00mm] | Vertical | View |
| EBPA-05-C-C | Headers | .197" [5.00mm] | Vertical | View |
| EBPA-05-D | Headers | .200" [5.08mm] | Vertical | View |
| EBPA-05-D-C | Headers | .200" [5.08mm] | Vertical | View |
| EBQA-02-C | Headers | .197" [5.00mm] | Right Angle | View |
| EBQA-02-C-C | Headers | .197" [5.00mm] | Right Angle | View |
| EBQA-02-D | Headers | .200" [5.08mm] | Right Angle | View |
| EBQA-02-D-C | Headers | .200" [5.08mm] | Right Angle | View |
| EBQA-03-C | Headers | .197" [5.00mm] | Right Angle | View |
| EBQA-03-C-C | Headers | .197" [5.00mm] | Right Angle | View |
| EBQA-03-D | Headers | .200" [5.08mm] | Right Angle | View |
| EBQA-03-D-C | Headers | .200" [5.08mm] | Right Angle | View |
| EBQA-04-C | Headers | .197" [5.00mm] | Right Angle | View |
| EBQA-04-C-C | Headers | .197" [5.00mm] | Right Angle | View |
| EBQA-04-D | Headers | .200" [5.08mm] | Right Angle | View |
| EBQA-04-D-C | Headers | .200" [5.08mm] | Right Angle | View |
| EBQA-05-C | Headers | .197" [5.00mm] | Right Angle | View |
| EBQA-05-C-C | Headers | .197" [5.00mm] | Right Angle | View |

| PART NUMBER | TYPE | CENTERLINE | ORIENTATION | DATA SHEET |
|---|---|---|---|---|
| EBQA-05-D | Headers | .200" [5.08mm] | Right Angle | View |
| EBQA-05-D-C | Headers | .200" [5.08mm] | Right Angle | View |
| EBRA-02-A | Headers | .138" [3.50mm] | Vertical | View |
| EBRA-02-B | Headers | .150" [3.81mm] | Vertical | View |
| EBRA-03-A | Headers | .138" [3.50mm] | Vertical | View |
| EBRA-03-B | Headers | .150" [3.81mm] | Vertical | View |
| EBRA-04-A | Headers | .138" [3.50mm] | Vertical | View |
| EBRA-04-B | Headers | .150" [3.81mm] | Vertical | View |
| EBRA-05-A | Headers | .138" [3.50mm] | Vertical | View |
| EBRA-05-B | Headers | .150" [3.81mm] | Vertical | View |
| EBSA-02-A | Headers | .138" [3.50mm] | Right Angle | View |
| EBSA-02-B | Headers | .150" [3.81mm] | Right Angle | View |
| EBSA-03-A | Headers | .138" [3.50mm] | Right Angle | View |
| EBSA-03-B | Headers | .150" [3.81mm] | Right Angle | View |
| EBSA-04-A | Headers | .138" [3.50mm] | Right Angle | View |
| EBSA-04-B | Headers | .150" [3.81mm] | Right Angle | View |
| EBSA-05-A | Headers | .138" [3.50mm] | Right Angle | View |
| EBSA-05-B | Headers | .150" [3.81mm] | Right Angle | View |

## Euro Block Plugs & Sockets

| PART NUMBER | TYPE | CENTERLINE | ORIENTATION | DATA SHEET |
|---|---|---|---|---|
| EB9A-02-C | Plugs and Sockets | .197" [5.00mm] | Right Angle | View |
| EB9A-02-D | Plugs and Sockets | .200" [5.08mm] | Right Angle | View |
| EB9A-03-C | Plugs and Sockets | .197" [5.00mm] | Right Angle | View |
| EB9A-03-D | Plugs and Sockets | .200" [5.08mm] | Right Angle | View |
| EB9A-04-C | Plugs and Sockets | .197" [5.00mm] | Right Angle | View |
| EB9A-04-D | Plugs and Sockets | .200" [5.08mm] | Right Angle | View |
| EB9A-05-C | Plugs and Sockets | .197" [5.00mm] | Right Angle | View |
| EB9A-05-D | Plugs and Sockets | .200" [5.08mm] | Right Angle | View |
| EBAA-02-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EBAC-02-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EBAC-03-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EBAFA-02-D | Wire to Board | .200" [5.08mm] | Right Angle | View |
| EBAG-02-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EBAG-02-M | Wire to Board | .295" [7.50mm] | Right Angle | View |
| EBAG-03-C | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EBAG-03-M | Wire to Board | .295" [7.50mm] | Right Angle | View |
| EBB-02-D-BL | Wire to Board | .200" [5.08mm] | Right Angle | View |
| EBB-05-D-BL | Wire to Board | .200" [5.08mm] | Right Angle | View |

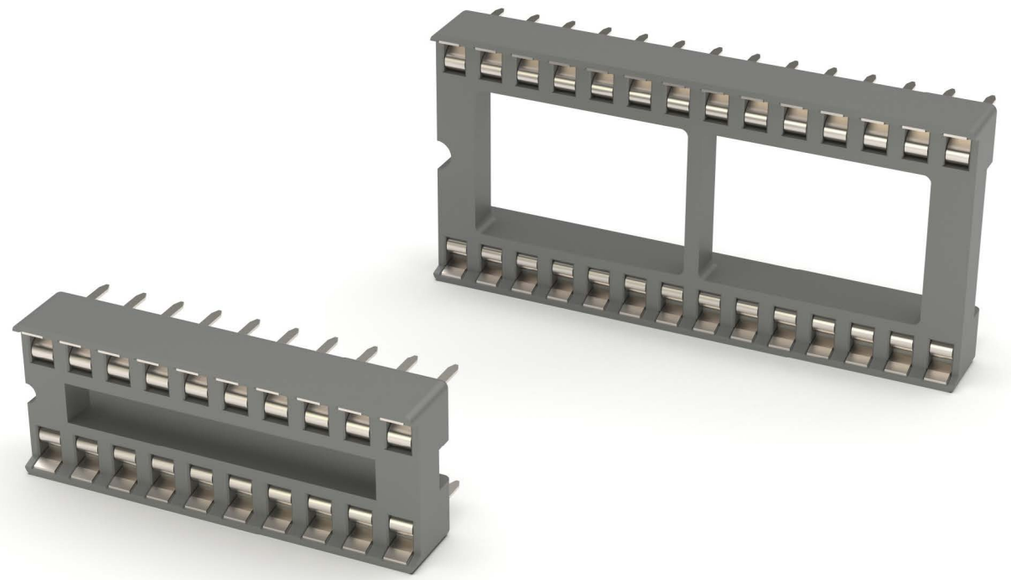
| PART NUMBER | TYPE | CENTERLINE | ORIENTATION | DATA SHEET |
|---|---|---|---|---|
| EBBA-02-C-SS-BU | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EBBA-03-C-SS-BU | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EBBA-04-C-SS-BU | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EBBA-05-C-SS-BU | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EBBA-06-C-SS-BU | Wire to Board | .197" [5.00mm] | Right Angle | View |
| EBG-02-D | Wire to Board | .200" [5.08mm] | 45° Angle | View |
| EBHA-02-C | Plugs and Sockets | .197" [5.00mm] | Vertical | View |
| EBHA-02-D | Plugs and Sockets | .200" [5.08mm] | Vertical | View |
| EBHA-03-C | Plugs and Sockets | .197" [5.00mm] | Vertical | View |
| EBHA-03-D | Plugs and Sockets | .200" [5.08mm] | Vertical | View |
| EBHA-04-C | Plugs and Sockets | .197" [5.00mm] | Vertical | View |
| EBHA-04-D | Plugs and Sockets | .200" [5.08mm] | Vertical | View |
| EBHA-05-C | Plugs and Sockets | .197" [5.00mm] | Vertical | View |
| EBHA-05-D | Plugs and Sockets | .200" [5.08mm] | Vertical | View |
| EBJA-02-C-BK | Plugs and Sockets | .197" [5.00mm] | Vertical | View |
| EBJA-03-C-BK | Plugs and Sockets | .197" [5.00mm] | Vertical | View |
| EBJA-04-C-BK | Plugs and Sockets | .197" [5.00mm] | Vertical | View |
| EBJA-05-C-BK | Plugs and Sockets | .197" [5.00mm] | Vertical | View |

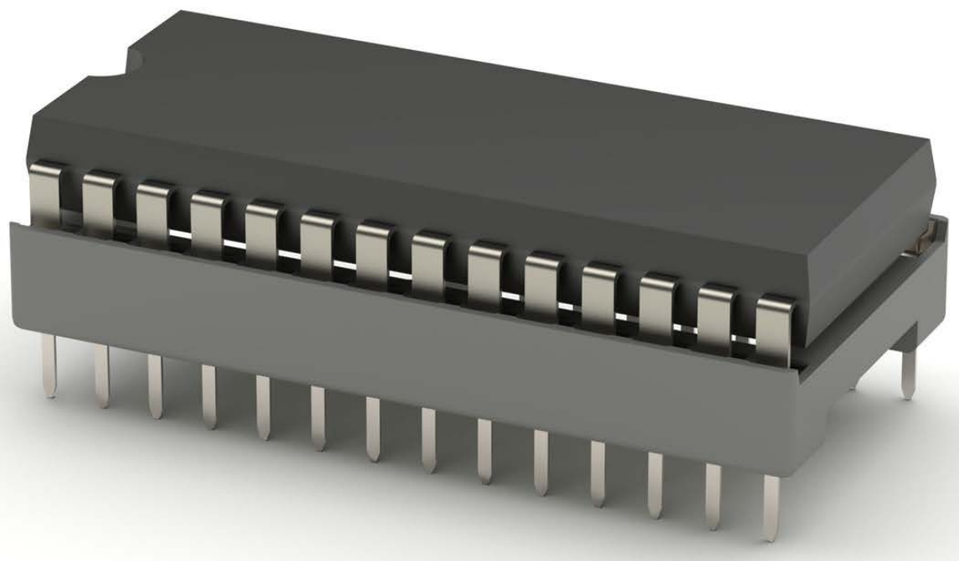
| PART NUMBER | TYPE | CENTERLINE | ORIENTATION | DATA SHEET |
|---|---|---|---|---|
| EBJA-06-C-BK | Plugs and Sockets | .197" [5.00mm] | Vertical | View |
| EBKA-02-A | Plugs and Sockets | .138" [3.50mm] | Vertical | View |
| EBKA-02-B | Plugs and Sockets | .150" [3.81mm] | Vertical | View |
| EBKA-03-A | Plugs and Sockets | .138" [3.50mm] | Vertical | View |
| EBKA-03-B | Plugs and Sockets | .150" [3.81mm] | Vertical | View |
| EBKA-04-A | Plugs and Sockets | .138" [3.50mm] | Vertical | View |
| EBKA-04-B | Plugs and Sockets | .150" [3.81mm] | Vertical | View |
| EBKA-05-A | Plugs and Sockets | .138" [3.50mm] | Vertical | View |
| EBKA-05-B | Plugs and Sockets | .150" [3.81mm] | Vertical | View |

# IC Sockets

## DUAL ROW SOCKETS

Adam Tech ICS Series IC Sockets are a low profile, dual row design available in .100" centerline pin spacing with .300" or .600" row spacing. Our ISD Series are fine pitched sockets on 0.070" centerlines with .300" or .600" row spacing. All Adam Tech sockets are manufactured with our exclusive single beam dual wipe contact design which produces a high pressure wiping action for superior connectivity. In addition to an internal contact stop which prevents over stressing of the contact, each has a wide lead in to eliminate mis-mating and a closed bottom anti-solder wicking design.





## FEATURES & SPECIFICATIONS

### FEATURES:
High Pressure Contacts
Single Beam, Dual Wipe Contacts
Anti-Solder Wicking design
Machine Insertable
Dual Row
Low Profile

### MATING COMPONENTS:
All industry standard components with DIP leads

### PACKAGING:
Anti-ESD plastic tubes

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Standard insulator: PBT, Glass reinforced, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

### Contact Plating:
Tin over copper underplate overall

### Electrical:
Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Insertion force: 11.5 oz max with .024" X .006: leads
Withdrawal force: 0.85 oz min with .024" X .006" leads

### Temperature Rating:
Operating temperature: -55°C to +85°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

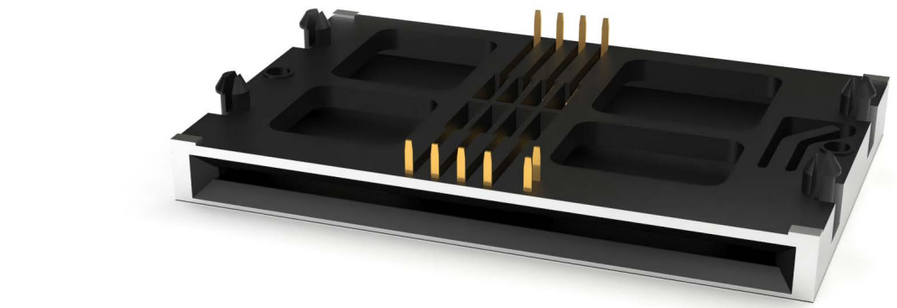
## PART NUMBER CONFIGURATION

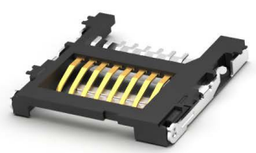
| ICS | - | 6 | - | 28 | - | T |
|---|---|---|---|---|---|---|
| **SERIES** | | **ROW SPACING** | | **POSITIONS** | | **PLATING** |
| **ICS** = *.100" IC Socket*<br>**ISD** = *.070" Shrink Socket* | | **3** = *.300" row spacing*<br>*Positions: 06, 08, 14, 16, 18, 20, 22, 24, 28*<br>**6** = *.600" row spacing*<br>*Positions: 24, 28, 32, 40, 42, 48* | | **06** *thru* **48** | | **T** = *Tin plated* |

| PART NUMBER | CENTERLINE | ROW SPACING | TYPE | POSITIONS | PRODUCT DATA |
|---|---|---|---|---|---|
| ICS-3XX-T | .100" Centerline | .300" Row Spacing | Dual Row | 6 | View |
| ICS-6XX-T | .100" Centerline | .600" Row Spacing | Dual Row | 24 | View |
| ISD-3XX-T | .070" Centerline | .300" Row Spacing | Dual Row | 6 | View |
| ISD-642-T | .070" Centerline | .600" Row Spacing | Dual Row | 24 | View |

# Memory Connectors & Sockets

Adam Tech's Memory Connector and Sockets Series is a complete range of memory sockets for most memory card applications including Compact Flash, PCMCIA, Memory Stick and Secure Digital. Our advanced designs are focused on their ease of use, mating accuracy, card retention and life cycle. Precision engineered, extremely durable mating contacts and PCB leads contribute to a solid, high reliability, long life design.







## FEATURES & SPECIFICATIONS

### FEATURES:
Multitude of sockets to satisfy most applications
Precision, compact designs
Fine pitched, heavy duty contacts
Sockets conform to CFA, JEIDA, PCMCIA & JEDEC

### MATING OPTIONS:
All industry standard memory cards

### SPECIFICATIONS:

### Material:
Insulator: PA9 or LCP, glass reinforced, rated UL94V-0
Contacts: Phosphor bronze
Frame / shield: Brass, nickel plated

### Contact Plating:
Contact area: Gold over nickel underplate
Solder tails: Tin over copper underplate

### Electrical:
Operating voltage: 250V AC max
Current rating range: 0.5 to 1 Amps max
Contact resistance: 40 mΩ max. initial
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Mating durability: 10,000 cycles min.

### Temperature Rating:
Operating temperature range: -20°C to +85°C

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

## PART NUMBER CONFIGURATION

**MS - 10 - A - SG - NP**

| SERIES | POSITIONS | TYPE | PLATING | OPTIONS |
|---|---|---|---|---|
| **MS** = *Memory Stick (Normal Type)*<br>**MMSP** = *Micro Memory Stick (Push-Push Type)*<br>**SD** = *Secure Digital*<br>**SDM** = *Secure Digital (Metal Cover)*<br>**SDP** = *Secure Digital (Push-Push Type)*<br>**SDP-17** = *Secure Digital eXtended Capacity (SD 4.0, UHS-II) (Push-Push Type)*<br>**MSD**= *MiniSecure Digital (Standard Type)*<br>**MSDPR**= *MiniSecure Digital (Push-Push Type) (Reverse Type)*<br>**MCSP** = *Micro Secure Digital (Push-Push Type)*<br>**MCSP-16** = *Secure Digital eXtended Capacity (SD 4.0, UHS-II) (Push-Push Type)*<br>**CF** = *Compact Flash*<br>**CFA** = *Compact Flash (Standard Type)*<br>**CFS** = *Compact Flash Socket*<br>**CF1** = *Compact Flash, Type 1*<br>**CFE** = *Compact Flash, Ejector*<br>**CFR** = *Compact Flash (Reverse Type)*<br>**SCC** = *Sim Card Socket*<br>**MSCC** = *MicroSim Card Socket*<br>**MSCCP** = *MicroSim Card Socket (Push-Push Type)* | | **A** = *Type A*<br>**B** = *Type B*<br>**C** = *Type C* | **SG** = *Selective Gold plating in contact area and Tin plating on tails* | *Add designator(s) to end of part number*<br>**T/R** = *Tape & Reel packaging*<br>**SMT** = *Surface Mount Leads with Hi-Temp insulator for Hi-Temp soldering processes up to 260°C*<br>**NP** = *No Peg*<br>**SW** = *Switch = Card Detect = CD* |

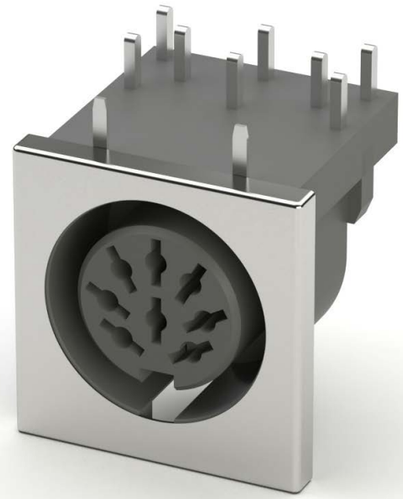
| PART NUMBER | TYPE | PRODUCT DATA |
|---|---|---|
| CF-50-C-SG-N | Compact Flash | View |
| CF-50-E-SG-2 | Compact Flash | View |
| MMSP-11-A-SG | Memory Stick | View |
| MSCC-A-08-G-15-TR | Micro SIM Card Socket | View |
| MSCC-B-06-G-15-TR | Micro SIM Card Socket | View |
| MSCC-C-06-G-TR | Micro SIM Card Socket | View |
| MSCC-C-08-G-TR | Micro SIM Card Socket | View |
| MSCC-D-08-G-SW-TR | Micro SIM Card Socket | View |
| MSCCP-A-06-SG-SW-TR | Micro SIM Card Socket | View |
| MSCCP-A1-06-SG-SW-TR | Micro SIM Card Socket | View |
| MSCCP-B-06-G-SW-TR | Micro SIM Card Socket | View |
| MSCCP-D-06-SG-SW-TR | Micro SIM Card Socket | View |
| MSCCP-D-08-SG-SW-TR | Micro SIM Card Socket | View |
| MSD-11-A-SG | Mini Secure Digital | View |
| MSDPR-11-C-SG | Mini Secure Digital | View |
| NSCC-A2-06-G-SMT-TR | Nano SIM Card Socket | View |
| NSCC-C-06-G-SMT-SW-TR | Nano SIM Card Socket | View |
| NSCCP-D-06-G-SMT-SW-TR | Nano SIM Card Socket | View |
| SCC-A3-08-SG-HC-TR | SIM Card Socket | View |
| SCC-K-06-SGM-SMT-B-TR | SIM Card Socket | View |
| SCC-Q1-06-G-SMT-TR | SIM Card Socket | View |
| SDP-09C-SG | Secure Digital | View |
| SDP-09M-SG-TR | Secure Digital | View |
| SDP-09N-G-TR | Secure Digital | View |

# DIN Connectors & Plugs

## CIRCULAR DIN CONNECTORS

Adam Tech's standard offering of Circular DIN Connectors provides interconnect solutions to a broad range of applications. These connectors are offered in 3-8 positions, and in various styles and configurations. Other options include PCB pin or solder eyelet termination, straight or right angle orientation, and shielded or unshielded.









## FEATURES & SPECIFICATIONS

### FEATURES:
Wide range of styles
Offered in 3 thru 13 positions
Standard and shielded versions available
Excellent for Low Level signal applications

### MATING PLUGS:
All industry standard circular DIN plugs.

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Standard insulator: PBT glass filled, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Brass
Shield: Copper Alloy, Bright Nickel plated
Contact Plating:
Tin over Copper underplate overall

### Electrical:
Operating voltage: 20V DC max.
Current rating: 2 Amps max
Contact resistance: 20 mΩ max. initial
Insulation resistance: 500 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Insertion force: 15 lb max.
Withdrawal force: 0.8 lb min
Mating durability: 5000 cycles min.

### Temperature Rating:
Operating temperature: -55°C to +85°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

## RIGHT ANGLE PC BOARD MOUNT PART NUMBER CONFIGURATION

**DJ - 005 - S**

| SERIES | POSITIONS | FOOTPRINT/SHIELDING |
|---|---|---|
| **DJ** = *Right Angle, PC board mount Din Jack* | *3P thru 13P shown as* **003** *thru* **013** | *Blank = Non-shielded, 10mm centerline front pins*<br>**.5** *= Non shielded 5mm centerline front pins*<br>**S** *= Metal shield, 10mm centerline front pins*<br>**S.5** *= Metal shield, 5mm centerline front pins* |

## STRAIGHT PC BOARD MOUNT AND PANEL MOUNT VERSIONS PART NUMBER CONFIGURATION

**DJN - 005 - A**

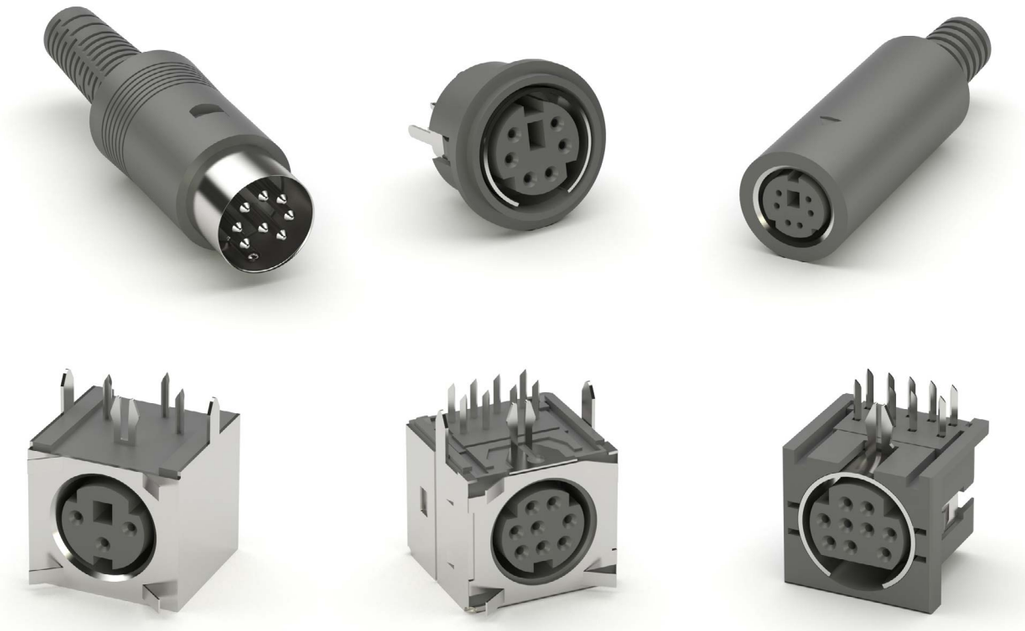
| SERIES | POSITIONS | TERMINATION |
|---|---|---|
| **DJP** = *Panel mount w/ Mounting Flange*<br>**DJN** = *Barrel type straight PCB mount* | *3P thru 13P shown as* **003** *thru* **013** | **A** *= Solder eyelet*<br>**B** *= PCB pin* |

| PART NUMBER | GENDER | MOUNTING ORIENTATION | POSITIONS | TERMINATION | SHIELDING | PRODUCT DATA |
|---|---|---|---|---|---|---|
| DJ-00X-5 | Receptacle | Right Angle, PCB Mount | 3 | PCB Pins | Non Shielded, 5mm Centerline Front Pins | View |
| DJ-00X-S | Receptacle | Right Angle, PCB Mount | 3 | PCB Pins | Shielded, 10mm Centerline Front Pins | View |
| DJ-00X-S5 | Receptacle | Right Angle, PCB Mount | 3 | PCB Pins | Shielded, 5mm Centerline Front Pins | View |
| DJN-00X-A | Receptacle | Straight PCB Mount | 3 | Solder Eyelet | | View |
| DJN-00X-D | Receptacle | Straight PCB Mount | 3 | PCB Pins | | View |
| DJP-00XA-A | Receptacle | Straight Panel Mount | 3 | Solder Eyelet | | View |
| DJP-00XA-B | Receptacle | Straight Panel Mount | 3 | PCB Pins | | View |

# DIN Connectors & Plugs

## MINI DIN CONNECTORS

Adam Tech's line of Mini DIN Connectors are ideal for applications with capacity constraints. The small size receptacles are offered in 3-9 positions, and in various styles and configurations. Other options include mounting, orientation, termination, and shielding options. Mini DIN plugs are available to seamlessly mate with the line of receptacles.



## FEATURES & SPECIFICATIONS

### FEATURES:
Wide range of styles
Offered in 3 thru 13 positions
Standard and shielded versions available
Excellent for Low Level signal applications

### MATING PLUGS:
All industry standard circular DIN plugs.

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Standard insulator: PBT glass filled, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Brass
Shield: Copper Alloy, Bright Nickel plated
Contact Plating:
Tin over Copper underplate overall

### Electrical:
Operating voltage: 20V DC max.
Current rating: 2 Amps max
Contact resistance: 20 mΩ max. initial
Insulation resistance: 500 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Insertion force: 15 lb max.
Withdrawal force: 0.8 lb min
Mating durability: 5000 cycles min.

### Temperature Rating:
Operating temperature: -55°C to +85°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

## PART NUMBER CONFIGURATION

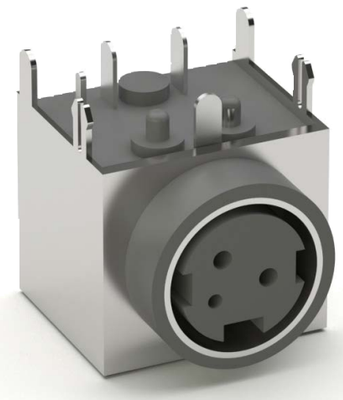
| MDJ | - 005 | - FS | - B | - W |
|---|---|---|---|---|
| **SERIES** | **POSITIONS** | **SHIELDING** | **MOUNTING (MDV SERIES)** | **TERMINATION (MDE SERIES)** |
| **MDJ** = *Right Angle Receptacle, PCB Mount*<br>**MDJD** = *Stacked Right Angle Receptacle, PCB Mount*<br>**MDV** = *Vertical Receptacle, PCB Mount*<br>**MDE** = *Panel Mount Receptacle, Wire Leaded with Flange*<br>**MDP** = *Male Plug*<br>**MDS** = *Female Plug* | *3P thru 9P shown as 003 thru 009* | **Blank** = *No shield*<br>**S** = *Four sided shield*<br>**FS** = *Five sided shield* | **Blank** = *No mounting provision*<br>**B** = *Threaded outer shell with mounting nut*<br>**E** = *Flanges with mounting holes* | **W** = *6" wire leads stripped .250"* |

| PART NUMBER | GENDER | MOUNTING ORIENTATION | POSITIONS | SHIELDING | TERMINATION | MOUNTING | PRODUCT DATA |
|---|---|---|---|---|---|---|---|
| MDE-00X-W | Receptacle | Vertical | 3 - 8 | Not Shielded | 6" Wire Leads Stripped .250" | Panel Mount Flanges with Mounting Holes | View |
| MDJ-009-FS | Receptacle | Right Angle | 9 | Five Sided Shield | PCB | PCB Mount | View |
| MDJ-00X | Receptacle | Right Angle | 3 - 8 | Not Shielded | PCB | PCB Mount | View |
| MDJ-00X-FS | Receptacle | Right Angle | 3 - 8 | Five Sided Shield | PCB | PCB Mount | View |
| MDJ-00X-S | Receptacle | Right Angle | 3 - 8 | Four Sided Shield | PCB | PCB Mount | View |
| MDJD-004-FS | Stacked Receptacle | Right Angle | 4 | Five Sided Shield | PCB | PCB Mount | View |
| MDP-009 | Male Plug | N/A | 9 | Not Shielded | Solder, Cable | Cable Mount | View |
| MDP-00X | Male Plug | N/A | 3 - 8 | Not Shielded | Solder, Cable | Cable Mount | View |
| MDP-XX-X | Male Plug | N/A | 3 - 8 | Not Shielded | Solder, Cable | Cable Mount | View |
| MDS-009 | Female Plug | N/A | 9 | Not Shielded | Solder, Cable | Cable Mount | View |
| MDS-XXX | Female Plug | N/A | 3 - 8 | Not Shielded | Solder, Cable | Cable Mount | View |
| MDV-00X | Receptacle | Vertical | 3 - 8 | Not Shielded | PCB | PCB Mount | View |
| MDV-00X-B | Receptacle | Vertical | 3 - 8 | Not Shielded | PCB | Threaded Outer Shell with Mounting Nut | View |
| MDV-00X-E | Receptacle | Vertical | 3 - 8 | Not Shielded | PCB | Panel Mount Flanges with Mounting Holes | View |

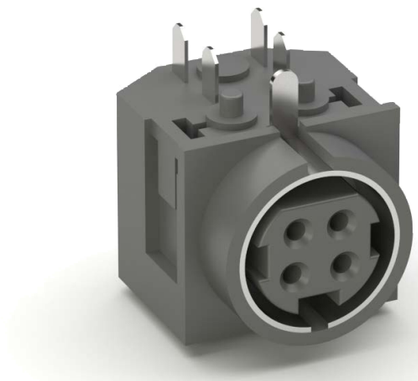
# DIN Connectors & Plugs

## POWER DIN CONNECTORS

Adam Tech's line of Power Din Connectors are ideal for applications requiring power connections, as well as both power and signal connections. These connectors operate at a voltage of 30-50 VDC and a current rating of 7-7.5 amps. The receptacles are offered in 3 or 4 positions, right angle or vertical orientation, shielded or unshielded, and with through hole mounting. A power DIN plug is available to seamlessly mate with the line of receptacles.









## FEATURES & SPECIFICATIONS

### FEATURES:

Wide range of styles
Offered in 3 thru 13 positions
Standard and shielded versions available
Excellent for Low Level signal applications

### MATING PLUGS:

All industry standard circular DIN plugs.

### PACKAGING:

Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:

Standard insulator: PBT glass filled, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Brass
Shield: Copper Alloy, Bright Nickel plated
Contact Plating:
Tin over Copper underplate overall

### Electrical:

Operating voltage: 20V DC max.
Current rating: 2 Amps max
Contact resistance: 20 mΩ max. initial
Insulation resistance: 500 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:

Insertion force: 15 lb max.
Withdrawal force: 0.8 lb min
Mating durability: 5000 cycles min.

### Temperature Rating:

Operating temperature: -55°C to +85°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

## PART NUMBER CONFIGURATION

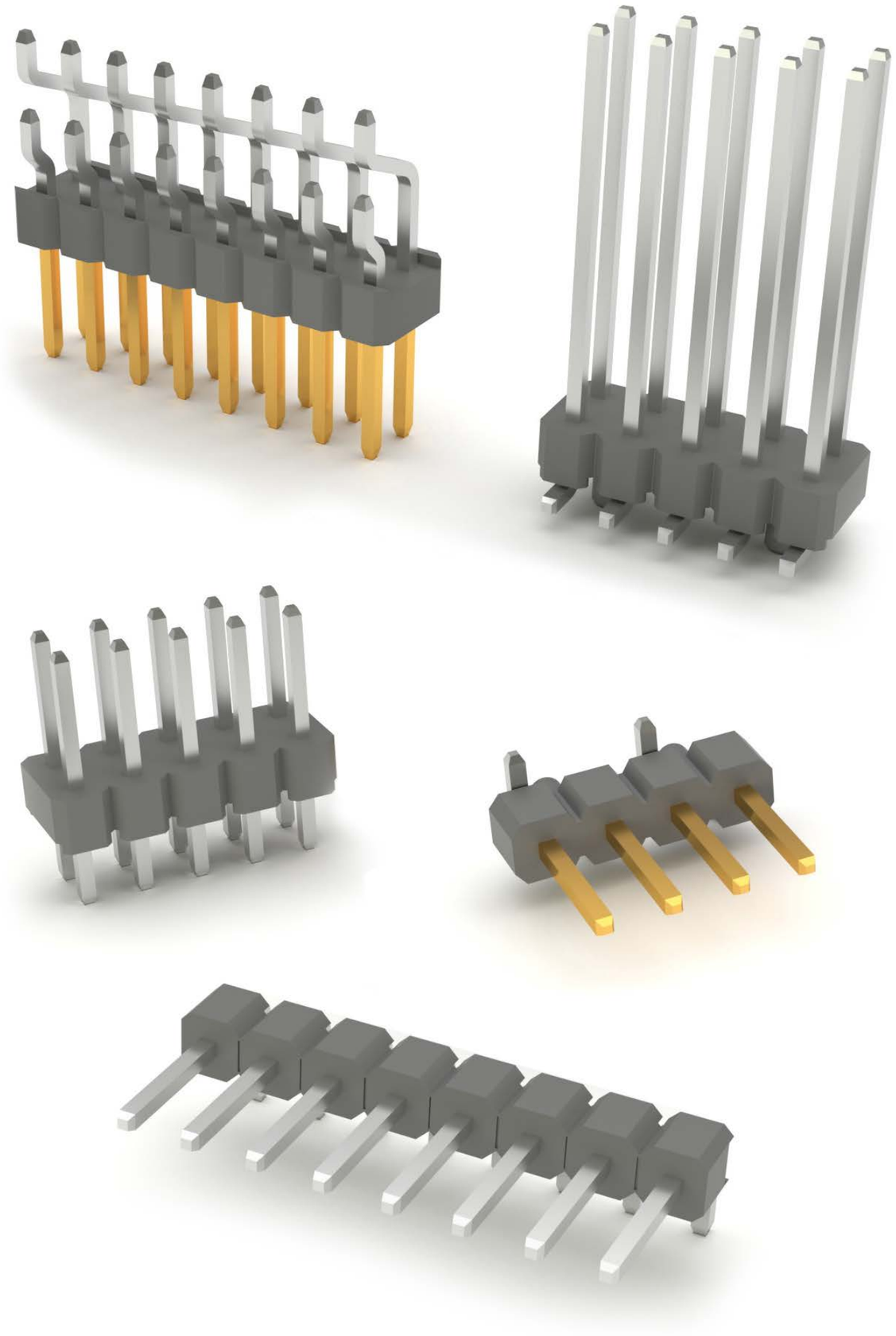
**MPJ - 3P - V - S**

| SERIES | POSITIONS | MOUNTING ANGLE | OPTIONS |
|---|---|---|---|
| **MPJ** = *Mini DIN Power Jack*<br>**MPJ** = *Mini DIN Power Plug* | **3P** = *3 Positions, 2 Power and 1 Signal Contact*<br>**4P** = *4 Position, All Power Contacts* | **Blank** = *Right Angle*<br>**V** = *Vertical* | *Add designator(s) to end of part number*<br>**S** = *Shielded*<br>**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C* |

| PART NUMBER | GENDER | MOUNTING ORIENTATION | POSITIONS | OPTIONS | PRODUCT DATA |
|---|---|---|---|---|---|
| MP-XX-D | Plug | | | | View |
| MPJ-3P | Receptacle | Right Angle Thru Hole | 3 | | View |
| MPJ-3P-S | Receptacle | Right Angle Thru Hole | 3 | Shielded | View |
| MPJ-4P | Receptacle | Right Angle Thru Hole | 4 | | View |
| MPJ-4P-S | Receptacle | Right Angle Thru Hole | 4 | Shielded | View |
| MPJ-4P-V-S | Receptacle | Vertical Thru Hole | 4 | | View |

# Pin Headers

Adam Tech's Pin Header series is a full range of headers in a variety of configurations, including single or dual row, straight or right angle, and through hole or surface mount. Their close tolerance, .025" sq. posts are smoothly finished, and taper tipped to eliminate insertion damage to the PCB or mating connector. These customizable pin headers can be ordered in specific requested sizes, with additional options including stacked insulators and tin, gold or selective gold plating.



## FEATURES & SPECIFICATIONS

### FEATURES:

Single or dual row
Pitch options ranging from 0.031" (0.80 mm) to 0.100" (2.54 mm)
Positions: 1 to 100
Solder termination
Push-pull fastening
Surface mount or through-hole mounting
Vertical or right angle
Square contacts
Various contact lengths
Insulator height options: 0.039" (1.00 mm) to 0.197" (5.00 mm)
Current rating: 1 A to 3 A
Voltage rating: 250 VAC
UL Recognized

### SPECIFICATIONS:

#### Material:

Standard insulator: PBT, glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: rated UL94V-0
Insulator Color: Black
Contacts: Brass

#### Plating:

U = Gold over nickel underplate overall
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

#### Temperature Rating:

Operating temperature range: -40°C to +105°C

### PACKAGING:

Anti-ESD plastic bags or tubes
Tape and Reel available for SMT option

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

## FEATURES & SPECIFICATIONS

### FEATURES:
Dual row
.031" [0.8mm] pitch
Positions: 4 to 80
Solder termination
Push-pull fastening
Surface mount or through-hole mounting
Vertical or right angle
Square contacts
Various contact lengths
Insulator height options: 0.039" (1.00 mm) to 0.197" (5.00 mm)
Current rating: 1A
Voltage rating: 250 VAC
UL Recognized

### SPECIFICATIONS:

### Material:
Standard insulator: PBT, glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Brass

### Plating:
U = Gold over nickel underplate overall
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

### Electrical:
Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

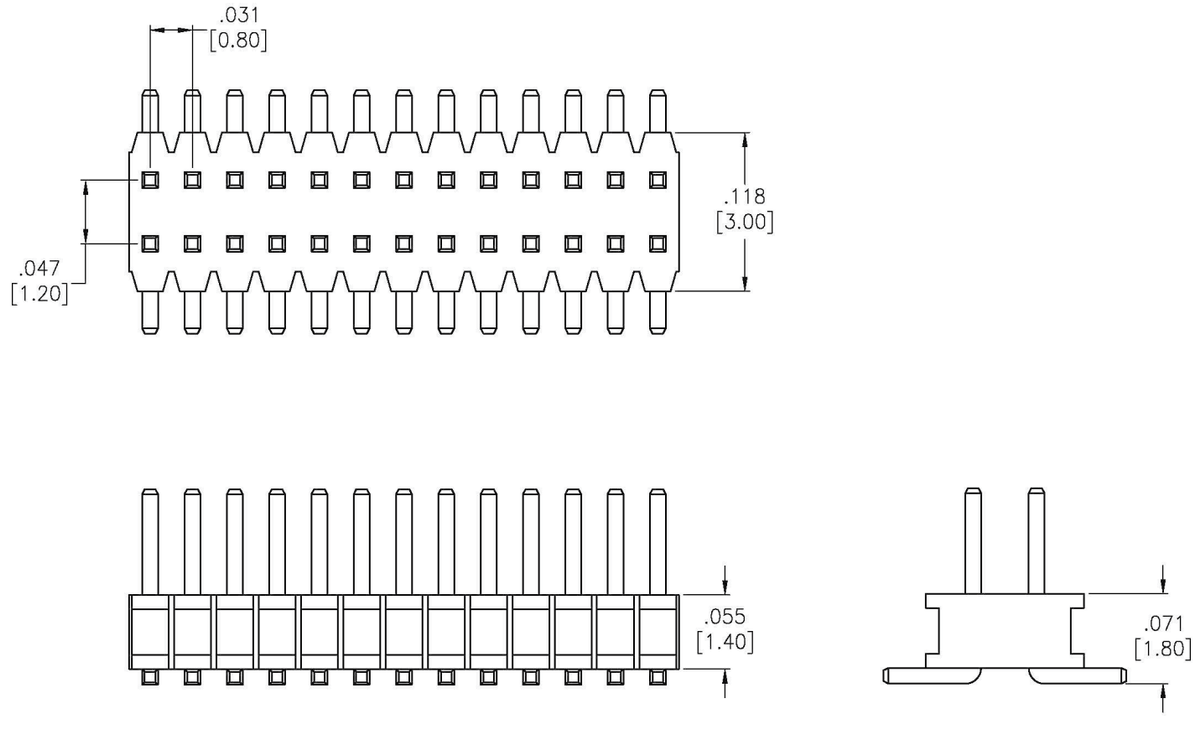
### Mechanical:
Mating durability: 500 cycles

### Temperature Rating:
Operating temperature range: -40°C to +105°C
Soldering process temperature: 260°C

### PACKAGING:
Anti-ESD plastic bags or tubes
Tape and Reel available for SMT option

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

SPH2




## PART NUMBER CONFIGURATION

**SPH2 - 20 - SG - SMT - P**

| SERIES | POSITIONS | PLATING | MOUNTING | OPTIONS |
|---|---|---|---|---|
| **SPH2** = *0.8mm Dual Row Header* | **04** *thru* **80** | **U** = *Gold plated*<br>**SG** = *Selectively gold plated*<br>**T** = *Tin plated* | **Blank** = *Thru-hole*<br>**SMT** = *Surface mount* | *Add designator(s) to end of part number*<br>**P** = *Peg*<br>**PP** = *With Cap*<br>**T/R** = *Tape & Reel packaging* |

| PART NUMBER | PITCH | ROWS | PLATING | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|---|
| SPH2-XX-U-SMT | 0.031" [0.80mm] | Dual Row | Gold | Vertical Surface Mount | View |

# Pin Headers

.039” [1.0MM], DUAL ROW

## FEATURES & SPECIFICATIONS

### FEATURES:

Dual row
.039” [1.0mm] pitch
Positions: 4 to 80
Solder termination
Push-pull fastening
Surface mount or through-hole mounting
Vertical or right angle
Square contacts
Various contact lengths
Insulator height options: 0.039” (1.00 mm) to 0.197” (5.00 mm)
Current rating: 1A
Voltage rating: 250 VAC
UL Recognized

### SPECIFICATIONS:

### Material:

Standard insulator: PBT, glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Brass

### Plating:

U = Gold over nickel underplate overall
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

### Electrical:

Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:

Mating durability: 500 cycles

### Temperature Rating:

Operating temperature range: -40°C to +105°C
Soldering process temperature: 260°C

### PACKAGING:

Anti-ESD plastic bags or tubes
Tape and Reel available for SMT option

### APPROVALS AND CERTIFICATIONS:

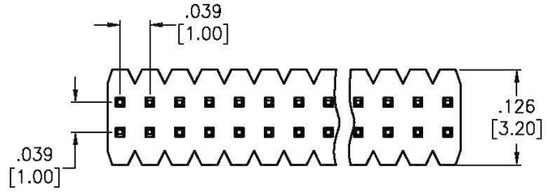
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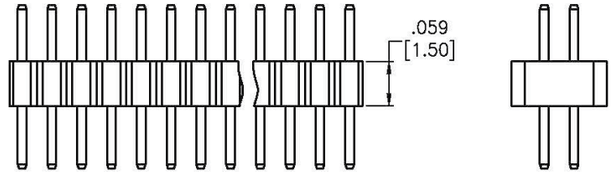
## PART NUMBER CONFIGURATION

| MPH2 | - 20 | - SG | - SMT | - P |
|---|---|---|---|---|
| **SERIES** | **POSITIONS** | **PLATING** | **MOUNTING** | **OPTIONS** |
| **MPH2** = *1.0mm Dual Row Pin Header*<br>**MPH2L** = *1.0mm Dual Row Pin Header, 1.0mm insulator height*<br>**MPH1**=*1.0mm Single Row Pin Header, 1.5mm insulator height*<br>**MPH1L** = *1.0mm Single Row Pin Header, 1.0mm insulator height* | **04** *thru* **80** | **U** = *Gold plated*<br>**SG** = *Selectively gold plated*<br>**T** = *Tin plated* | **Blank** = *Thru-hole*<br>**SMT** = *Surface mount* | *Add designator(s) to end of part number*<br>**P** = *Peg*<br>**PP** = *With Cap*<br>**T/R** = *Tape & Reel packaging*<br>**SMT-A** = *Surface mount leads Type A with First Pin up*<br>**SMT-B** = *Surface mount leads Type B with First Pin down* |

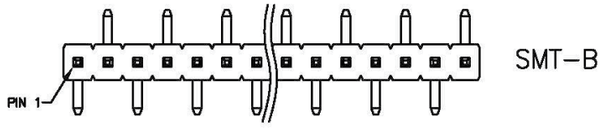
| PART NUMBER | PITCH | ROWS | PLATING | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|---|
| MPH2-XX-U | 0.039" [1.00mm] | Dual Row | Gold | Vertical Through Hole | View |
| MPH2-XX-U-SMT | 0.039" [1.00mm] | Dual Row | Gold | Vertical Surface Mount | View |

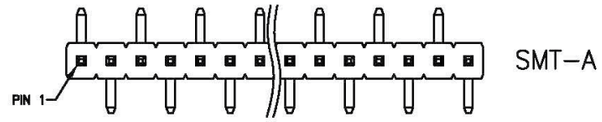
MPH2

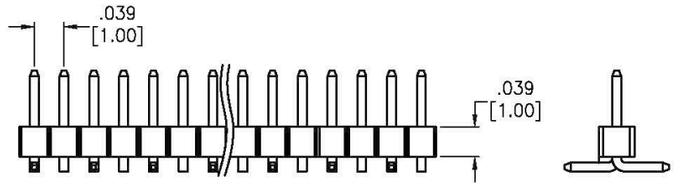


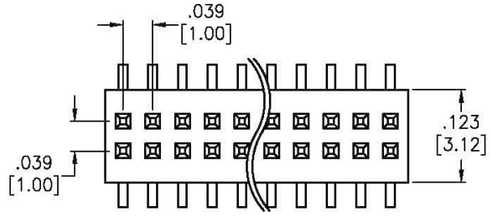

MPH1L SMT

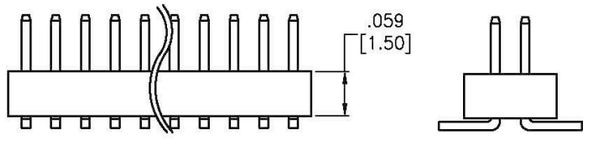



MPH2 SMT



# Pin Headers

.050” [1.27MM] SINGLE AND DUAL ROW

## FEATURES & SPECIFICATIONS

### FEATURES:

Single and dual row
.050” [1.27mm] pitch
Positions: 2 to 100
Solder termination
Push-pull fastening
Surface mount or through-hole mounting
Vertical or right angle
Square contacts
Various contact lengths
Insulator height options: 0.039” (1.00 mm) to 0.197” (5.00 mm)
Current rating: 1A
Voltage rating: 250 VAC
UL Recognized

### SPECIFICATIONS:

### Material:

Standard insulator: PBT, glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Brass

### Plating:

U = Gold over nickel underplate overall
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

### Electrical:

Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:

Mating durability: 500 cycles

### Temperature Rating:

Operating temperature range: -40°C to +105°C
Soldering process temperature: 260°C

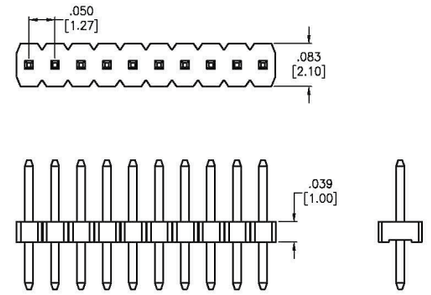
### PACKAGING:

Anti-ESD plastic bags or tubes
Tape and Reel available for SMT option

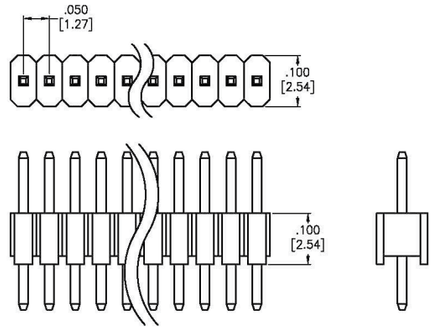
### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

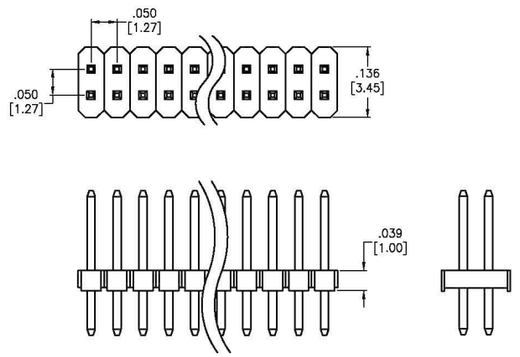
HPH1–A



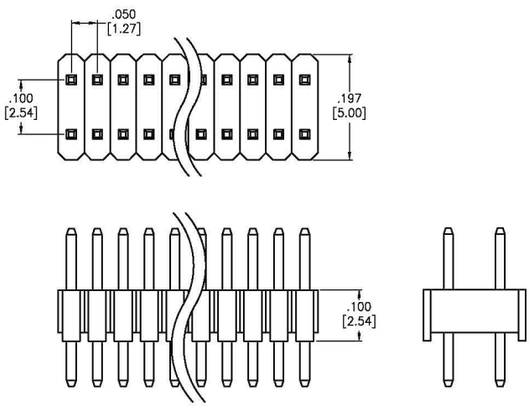

HPH1–B




HPH2–A




HPH2–B




## PART NUMBER CONFIGURATION

| HPH2 | - B | - XX | - SG | - A | - HT |
|---|---|---|---|---|---|
| **SERIES** | **INSULATOR SIZE** | **POSITIONS** | **PLATING** | **MATING / SOLDER TAIL LENGTH** | **OPTIONS** |
| **HPH1** = *.050" Single Row Straight Pin Header*<br>**HPH1R** = *.050" Single Row R/A Pin Header*<br>**HPH2** = *.050" Dual Row Straight Pin Header*<br>**HPH2R** = *.050" Dual Row R/A Pin Header* | **A** = *.039" [1.0mm] Insulator Thickness Single Row or Dual Row (Pitch .050" X .050")*<br>**B** = *.100" [2.54mm] Insulator Thickness Single Row or Dual Row (Pitch .050" X .100")* | **02** *thru* **50** = *Single Row*<br>**04** *thru* **100** = *Dual Row* | **SG** = *Selective Gold plating in contact area, Tin plating on Solder Tails*<br>**U** = *Gold Plated*<br>**T** = *Tin Plated* | **A** = *Standard Length*<br>**B** = *Special Length in Inches customer specified defined as Tail length / Overall length Example: .090/.247*<br>*Note: For special Mating Length with SMT tails is defined as -SMT- XXX (-XXX is Length in Inches) Example: SMT-.118* | *Add designator(s) to end of part number*<br>**HT** = *Hi-Temp Insulator for Hight Temp soldering process 260°C*<br>**KT** = *Kapton Pick & Place Tape*<br>**L** = *.059" [1.5mm] Insulator Height*<br>**P** = *Locating Pegs*<br>**PP** = *Pick & Place Cap*<br>**SMT** = *Dual Row Surface Mount*<br>**SMT-A** = *Single Row Surface Mount Leads Type A*<br>**SMT-B** = *Single Row Surface Mount Leads Type B*<br>**T/R** = *Tape & Reel Packaging* |

| PART NUMBER | PITCH | ROWS | PLATING | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|---|
| HPH1-A-XX-TA | 0.050" [1.27mm] | Single Row | Tin | Vertical Through Hole | View |
| HPH1-A-XX-UA | 0.050" [1.27mm] | Single Row | Gold | Vertical Through Hole | View |
| HPH1-B-XX-TA | 0.050" [1.27mm] | Single Row | Tin | Vertical Through Hole | View |
| HPH1-B-XX-UA | 0.050" [1.27mm] | Single Row | Gold | Vertical Through Hole | View |
| HPH2-A-XX-UA | 0.050" [1.27mm] | Dual Row | Gold | Vertical Through Hole | View |
| HPH2-A-XX-UA-SMT | 0.050" [1.27mm] | Dual Row | Gold | Vertical Surface Mount | View |
| HPH2-B-XX-UA | 0.050" [1.27mm] | Dual Row | Gold | Vertical Through Hole | View |

# Pin Headers

.050” [1.27MM] SINGLE AND DUAL ROW, DUAL INSULATOR

## FEATURES & SPECIFICATIONS

### FEATURES:

Single and dual row
.050” [1.27mm] pitch
Positions: 1 to 100
Dual Insulator
Solder termination
Push-pull fastening
Surface mount or through-hole mounting
Vertical or right angle
Square contacts
Various contact lengths
Insulator height options: 0.039” (1.00 mm) to 0.197” (5.00 mm)
Current rating: 1A
Voltage rating: 250 VAC
UL Recognized

### SPECIFICATIONS:

#### Material:

Standard insulator: PBT, glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Brass

#### Plating:

U = Gold over nickel underplate overall
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

#### Electrical:

Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

Mating durability: 500 cycles

#### Temperature Rating:

Operating temperature range: -40°C to +105°C
Soldering process temperature: 260°C

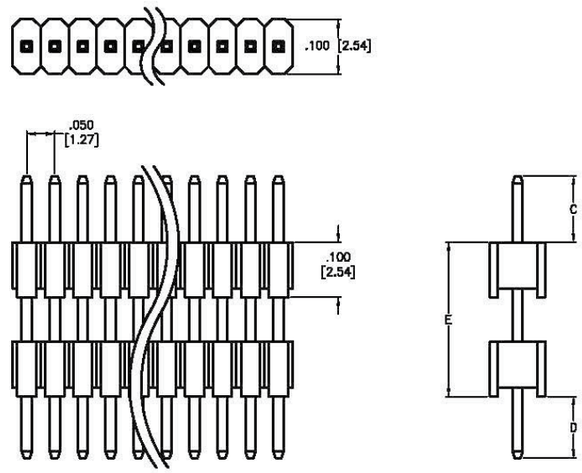
#### PACKAGING:

Anti-ESD plastic bags or tubes
Tape and Reel available for SMT option

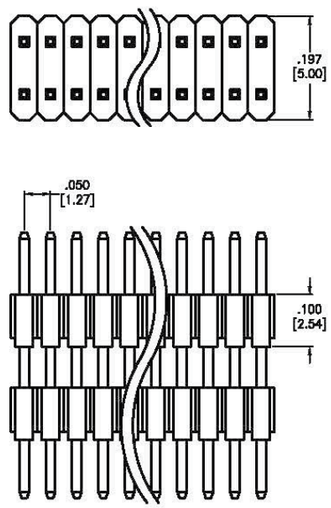
#### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

DHPH–1




DHPH–2




## PART NUMBER CONFIGURATION

**DHPH - 2 - 50 - SG - .XXX"/.XXX"/.XXX - P**
“C” DIM. “D” DIM. “E” DIM.

| SERIES | NO. OF ROWS | POSITIONS | PLATING | STACKING DIMENSIONS | OPTIONS |
|---|---|---|---|---|---|
| **DHPH** = *Dual insulator .050"centerline Pin Header* | Single row .050"<br>**1** *H=2.54mm, W=2.54mm*<br>Dual row .050"x.100"<br>**2** *H=2.5mm, W=5mm* | **01** *thru* **50** *(single row)*<br>**04** *thru* **100** *(dual row)* | **U** = *Gold plated*<br>**T** = *Tin plated*<br>**MT** = *Matte Tin plated*<br>**SG** = *Gold plating in contact area tin plating on solder tails* | *Specified In Inches As:<br>C” Dim. / “D” Dim. / “E” Dim.<br>Replace “D” Dim. with “SMT” for Surface Mount Option* | *Add designator(s) to end of part number*<br>**T/R** = *Tape and reel packaging*<br>**NP** = *No Peg*<br>**P** = *Optional locating peg*<br>**PP** = *With Cap*<br>**L** = *1.50mm Insulator*<br>**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C<br>(Add this option for thru-hole products only. All SMT products are manufacturedwith Hi-Temp insulators)*<br>**SMT** = *Dual Row Surface Mount leads with Hi-Temp insulator for Hi-Temp soldering processes up to 260°C*<br>**SMT-A** = *Single Row Surface Mount Leads Type A*<br>**SMT-B** = *Single Row Surface Mount Leads Type B* |

| PART NUMBER | PITCH | ROWS | PLATING | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|---|
| DHPH-1-XX-U-CDE | 0.050" [1.27mm] | Single Row | Gold | Vertical Through Hole | View |
| DHPH-1-XX-U-CSMTE | 0.050" [1.27mm] | Single Row | Gold | Vertical Surface Mount | View |
| DHPH-2-XX-U-CDE | 0.050" [1.27mm] | Dual Row | Gold | Vertical Through Hole | View |
| DHPH-2-XX-U-CSMTE | 0.050" [1.27mm] | Dual Row | Gold | Vertical Surface Mount | View |
| DPH-2-XX-SG-.300/.100/.200 | 0.100" [2.54mm] | Dual Row | Selective Gold | Vertical Through Hole | View |

# Pin Headers

.079” [2.0MM] SINGLE AND DUAL ROW

## FEATURES & SPECIFICATIONS

### FEATURES:

Single and dual row
.079” [2.0mm] pitch
Positions: 1 to 80
Solder termination
Push-pull fastening
Surface mount or through-hole mounting
Vertical or right angle
Square contacts
Various contact lengths
Insulator height options: 0.039” (1.00 mm) to 0.197” (5.00 mm)
Current rating: 1A
Voltage rating: 250 VAC
UL Recognized

### SPECIFICATIONS:

### Material:

Standard insulator: PBT, glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Brass

### Plating:

U = Gold over nickel underplate overall
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

### Electrical:

Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:

Mating durability: 1,000 cycles

### Temperature Rating:

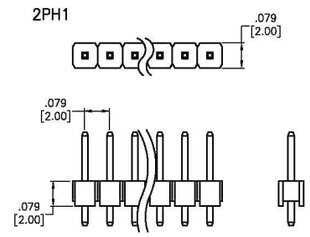
Operating temperature range: -40°C to +105°C
Soldering process temperature: 260°C

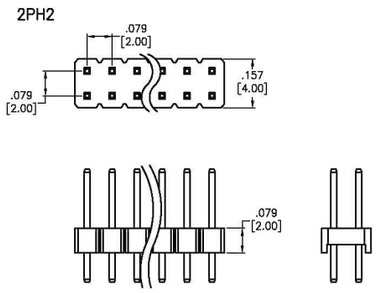
### PACKAGING:

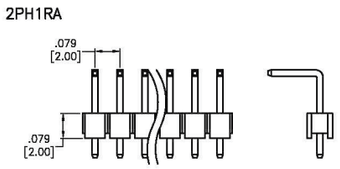
Anti-ESD plastic bags or tubes
Tape and Reel available for SMT option

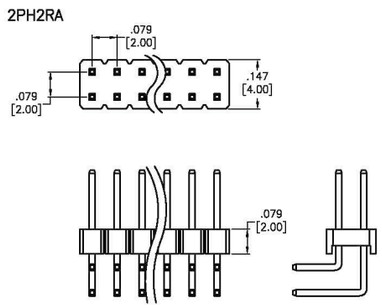
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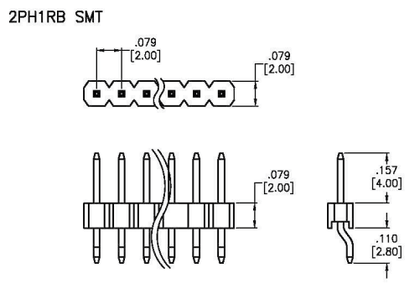
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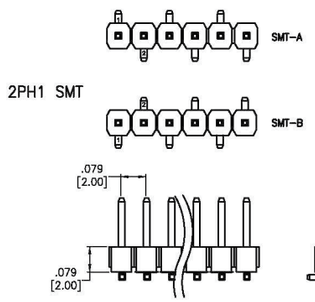


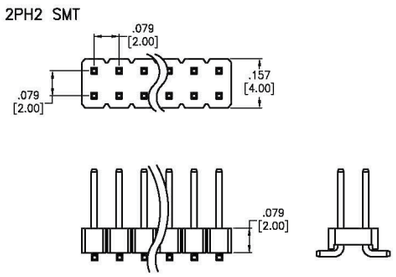




## PART NUMBER CONFIGURATION

| 2PH1 | - 40 | - U | - A | - SMT-A |
|---|---|---|---|---|
| **SERIES** | **POSITIONS** | **PLATING** | **PIN LENGTH** | **OPTIONS** |
| **2PH1** = *2.00mm Single Row Straight Pin Header*<br>**2PH2** = *2.00mm Dual Row Straight Pin Header*<br>**2PH2W** = *2.00mm Dual Row Straight Pin Header (wcon)*<br>**2PH2H** = *2.00mm Dual Row Straight Pin Header W4.30*H4.00mm*<br>**2PH2HR** = *2.00mm Dual Row Right Angle Pin Header W4.30*H4.00mm*<br>**2PH1R** = *2.00mm Single Row Right Angle Pin Header*<br>**2PH1RA** = *2.00mm Single Row Right Angle Pin Header (High Profile)*<br>**2PH1RB** = *2.00mm Single Row Right Angle Pin Header (-SMT)*<br>**2PH2R** = *2.00mm Dual Row Right Angle Pin Header*<br>**2PH2RA** = *2.00mm Dual Row Right Angle Pin Header* | *Single row:*<br>**1** *thru* **40**<br>*Dual row:*<br>**2** *thru* **80** | **U** = *Gold plated*<br>**SG** = *Selectively gold plated*<br>**T** = *Tin plated* | **A** = *Standard length*<br>**B** = *Special length, customer specified defined as: tail dim/total length* | *Add designator(s) to end of part number*<br>**SMT-A** = *Surface Mount leads Type A*<br>**SMT-B** = *Surface Mount Leads Type B*<br>**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)*<br>**L** = *Low profile 1.5mm insulator thickness*<br>**P** = *Locating pegs*<br>**T/R** = *Tape & Reel packaging*<br>**KT** = *With Mylar*<br>**PP** = *With Cap* |

| PART NUMBER | PITCH | ROWS | PLATING | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|---|
| 2PH1-XX-SGA | 0.079" [2.00mm] | Single Row | Selective Gold | Vertical Through Hole | View |
| 2PH1-XX-TA | 0.079" [2.00mm] | Single Row | Tin | Vertical Through Hole | View |
| 2PH1-XX-UA | 0.079" [2.00mm] | Single Row | Gold | Vertical Through Hole | View |
| 2PH1-XX-UA-SMT-A | 0.079" [2.00mm] | Single Row | Gold | Vertical Surface Mount | View |
| 2PH1-XX-UA-SMT-B | 0.079" [2.00mm] | Single Row | Gold | Vertical Surface Mount | View |
| 2PH1R-XX-UA | 0.079" [2.00mm] | Single Row | Gold | Right Angle Through Hole | View |
| 2PH2-XX-SGA | 0.079" [2.00mm] | Dual Row | Selective Gold | Vertical Through Hole | View |
| 2PH2-XX-TA | 0.079" [2.00mm] | Dual Row | Tin | Vertical Through Hole | View |
| 2PH2-XX-UA | 0.079" [2.00mm] | Dual Row | Gold | Vertical Through Hole | View |
| 2PH2R-XX-TA | 0.079" [2.00mm] | Dual Row | Tin | Right Angle Through Hole | View |
| 2PH2R-XX-UA | 0.079" [2.00mm] | Dual Row | Gold | Right Angle Through Hole | View |

# Pin Headers

## .079” [2.0MM] SINGLE AND DUAL ROW, DUAL INSULATOR

## FEATURES & SPECIFICATIONS

### FEATURES:

Single and dual row
.079” [2.0mm] pitch
Positions: 2 to 80
Dual insulator
Solder termination
Push-pull fastening
Surface mount or through-hole mounting
Vertical or right angle
Square contacts
Various contact lengths
Insulator height options: 0.039” (1.00 mm) to 0.197” (5.00 mm)
Current rating: 1A
Voltage rating: 250 VAC
UL Recognized

### SPECIFICATIONS:

### Material:

Standard insulator: PBT, glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Brass

### Plating:

U = Gold over nickel underplate overall
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

### Electrical:

Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:

Mating durability: 1,000 cycles

### Temperature Rating:

Operating temperature range: -40°C to +105°C
Soldering process temperature: 260°C

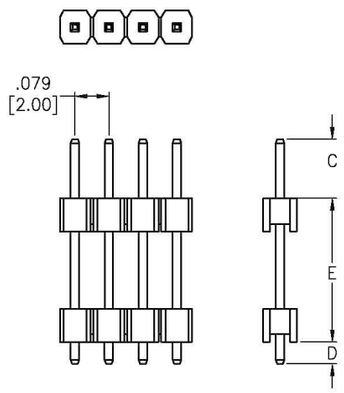
### PACKAGING:

Anti-ESD plastic bags or tubes
Tape and Reel available for SMT option

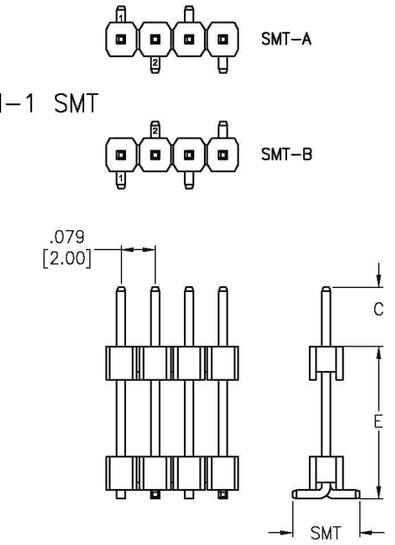
### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

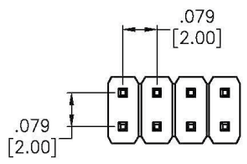
D2PH–1

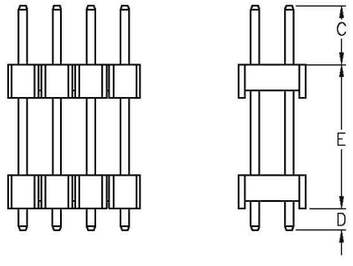



D2PH–1 SMT

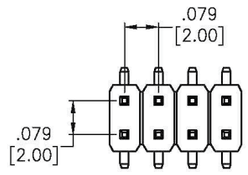


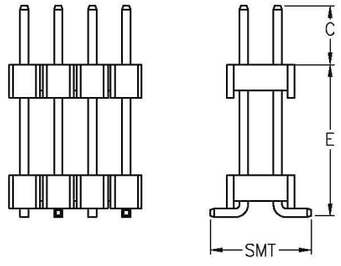

D2PH–2




D2PH–2 SMT




## PART NUMBER CONFIGURATION

**D2PH- 1 - 40 - SG - .XXX"/.XXX"/.XXX - L**
**“C” DIM. “D” DIM. “E” DIM.**

| SERIES | NO. OF ROWS | POSITIONS | PLATING | STACKING DIMENSIONS | OPTIONS |
|---|---|---|---|---|---|
| **D2PH** = *2mm Dual Insulator Pin Header*<br>**D2PH1R** = *2mm Dual Insulator Pin Header Single row R/A* | **1** = *Single row*<br>**2** = *Dual row* | *Single row:*<br>**2** *thru* **40**<br>*Dual row:*<br>**4** *thru* **80** | **U** = *Gold plated*<br>**T** = *Tin plated*<br>**MT** = *Matte Tin plated*<br>**SG** = *Gold plating in contact area tin plating on solder tails* | *Specified In Inches As:*<br>*C” Dim. / “D” Dim. / “E” Dim.*<br>*Replace “D” Dim. with “SMT” for Surface Mount Option* | *Add designator(s) to end of part number*<br>**SMT-A** = *Surface Mount leads Type A*<br>**SMT-B** = *Surface Mount Leads Type B*<br>**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C*<br>*(Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)*<br>**L** = *Low profile 1.5mm insulator thickness*<br>**P** = *Locating pegs*<br>**PP** = *With Cap*<br>**T/R** = *Tape & Reel packaging* |

| PART NUMBER | PITCH | ROWS | PLATING | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|---|
| D2PH-1-XX-U-CDE | 0.079" [2.00mm] | Single Row | Gold | Vertical Through Hole | View |
| D2PH-1-XX-U-CSMTE-A | 0.079" [2.00mm] | Single Row | Gold | Vertical Surface Mount | View |
| D2PH-2-XX-U-CDE | 0.079" [2.00mm] | Dual Row | Gold | Vertical Through Hole | View |
| D2PH-2-XX-U-CSMTE | 0.079" [2.00mm] | Dual Row | Gold | Vertical Surface Mount | View |

# Pin Headers

.100” [2.54MM] SINGLE AND DUAL ROW

## FEATURES & SPECIFICATIONS

### FEATURES:

Single and dual row
.100” [2.54mm] pitch
Positions: 1 to 80
Solder termination
Push-pull fastening
Surface mount or through-hole mounting
Vertical or right angle
Square contacts
Various contact lengths
Insulator height options: 0.039” (1.00 mm) to 0.197” (5.00 mm)
Current rating: 3A
Voltage rating: 250 VAC
UL Recognized

### SPECIFICATIONS:

### Material:

Standard insulator: PBT, glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Brass

### Plating:

U = Gold over nickel underplate overall
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

### Electrical:

Operating voltage: 250V AC max.
Current rating: 3 Amps max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:

Mating durability: 1,000 cycles

### Temperature Rating:

Operating temperature range: -40°C to +105°C
Soldering process temperature: 260°C

### PACKAGING:

Anti-ESD plastic bags
(Tape and Reel available for SMT option)

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

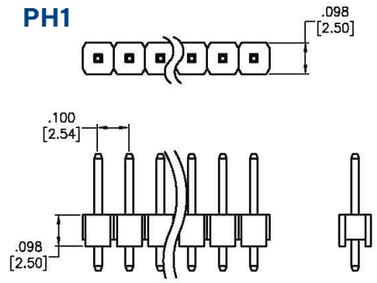
## PART NUMBER CONFIGURATION

**PH1 - 40 - U - A - HT**

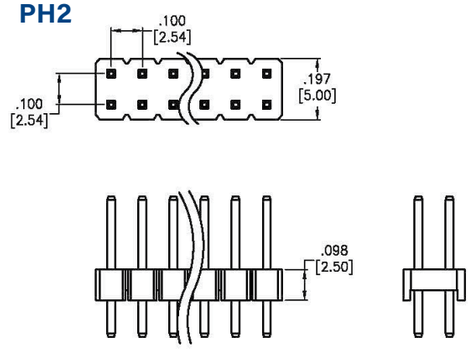
| SERIES | POSITIONS | PLATING | MATING/TAIL LENGTH | OPTIONS |
|---|---|---|---|---|
| **PH1** = *Single Row, Straight*<br>**PH1RA** = *Single Row,Right Angle, High Profile*<br>**PH1RB** = *Single Row, Right Angle, Low Profile*<br>**PH2** = *Dual Row, Straight*<br>**PH2RA** = *Dual Row, Right Angle* | *PH1* : **1** *Thru* **40**<br>*PH2* : **2** *Thru* **80** | **U** = *Gold flash overall*<br>**T** = *100 µin tin overall*<br>**SG** = *Gold flash on mating area 100 µin tin lead on solder tail* | **A** = *Mating Length ("C" dim.) = .235" Solder Tail ("D" dim.) = .120"*<br>**B** = *Mating Length ("C" dim.) = .318" Solder Tail Length ("D" dim.) = .120" Special lengths available contact factory* | *Add designator(s) to end of part number*<br>**SMT** = *Surface mount leads Dual row with Hi-Temp insulator*<br>**SMT-A** = *Surface mount leads Type A with Hi-Temp insulator*<br>**SMT-B** = *Surface mount leads Type B with Hi-Temp insulator*<br>**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)*<br>**L** = *Low profile 1.50 mm insulator thickness*<br>**T/R** = *Tape & Reel packaging*<br>**KT** = *Mylar*<br>**PP** = *Cap*<br>**P** = *Peg* |

| PART NUMBER | PITCH | ROWS | PLATING | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|---|
| PH1-XX-SGA | 0.100" [2.54mm] | Single Row | Selective Gold | Vertical Through Hole | View |
| PH1-XX-TA | 0.100" [2.54mm] | Single Row | Tin | Vertical Through Hole | View |
| PH1-XX-UA | 0.100" [2.54mm] | Single Row | Gold | Vertical Through Hole | View |
| PH1-XX-UA-HT | 0.100" [2.54mm] | Single Row | Gold | Vertical Through Hole | View |
| PH1-XX-UB | 0.100" [2.54mm] | Single Row | Gold | Vertical Through Hole | View |
| PH1RA-XX-TA | 0.100" [2.54mm] | Single Row | Tin | Right Angle Through Hole | View |
| PH1RA-XX-UA | 0.100" [2.54mm] | Single Row | Gold | Right Angle Through Hole | View |
| PH1RA-XX-UB | 0.100" [2.54mm] | Single Row | Gold | Right Angle Through Hole | View |

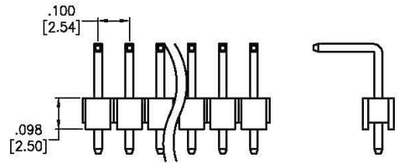
**PH1**



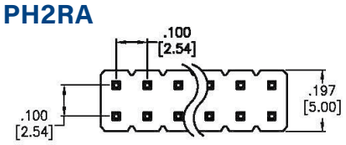

**PH2**



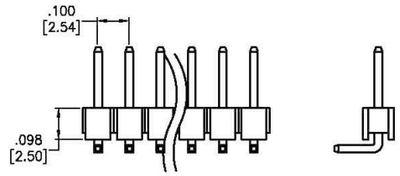

**PH1RA**

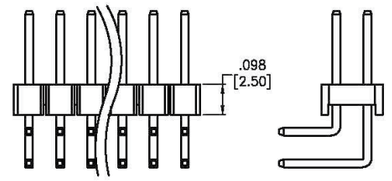



**PH2RA**

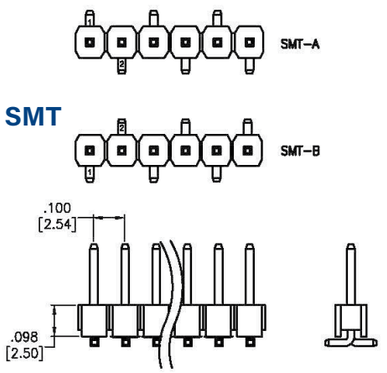



**PH1RB**

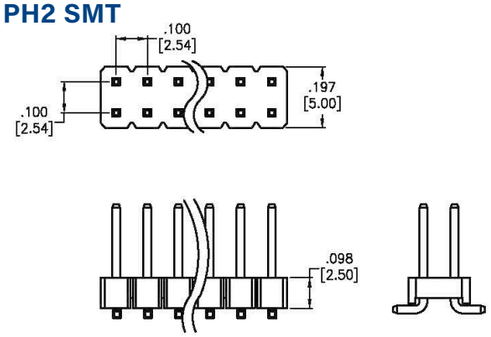



**PH1 SMT**




**PH2 SMT**




| PART NUMBER | PITCH | ROWS | PLATING | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|---|
| PH1RB-XX-TA | 0.100" [2.54mm] | Single Row | Tin | Right Angle Through Hole | View |
| PH1RB-XX-UA | 0.100" [2.54mm] | Single Row | Gold | Right Angle Through Hole | View |
| PH2-XX-SGA | 0.100" [2.54mm] | Dual Row | Selective Gold | Vertical Through Hole | View |
| PH2-XX-TA | 0.100" [2.54mm] | Dual Row | Tin | Vertical Through Hole | View |
| PH2-XX-UA | 0.100" [2.54mm] | Dual Row | Gold | Vertical Through Hole | View |
| PH2RA-XX-TA | 0.100" [2.54mm] | Dual Row | Tin | Right Angle Through Hole | View |
| PH2RA-XX-UA | 0.100" [2.54mm] | Dual Row | Gold | Right Angle Through Hole | View |

# Pin Headers

.100” [2.54MM] SINGLE AND DUAL ROW, DUAL INSULATOR

## FEATURES & SPECIFICATIONS

### FEATURES:

Single, dual, and triple row
.100” [2.54mm] pitch
Positions: 1 to 120
Solder termination
Push-pull fastening
Surface mount or through-hole mounting
Vertical or right angle
Square contacts
Various contact lengths
Insulator height options: 0.039” (1.00 mm) to 0.197” (5.00 mm)
Current rating: 3A
Voltage rating: 250 VAC
UL Recognized

### SPECIFICATIONS:

### Material:

Standard insulator: PBT, glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Brass

### Plating:

U = Gold over nickel underplate overall
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

### Electrical:

Operating voltage: 250V AC max.
Current rating: 3 Amps max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:

Mating durability: 1,000 cycles

### Temperature Rating:

Operating temperature range: -40°C to +105°C
Soldering process temperature: 260°C

### PACKAGING:

Anti-ESD plastic bags
(Tape and Reel available for SMT option)

### APPROVALS AND CERTIFICATIONS:

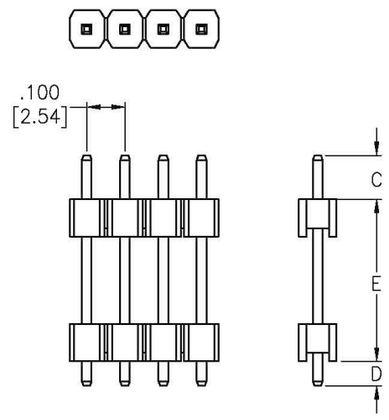
UL Recognized File no. E224053

## PART NUMBER CONFIGURATION

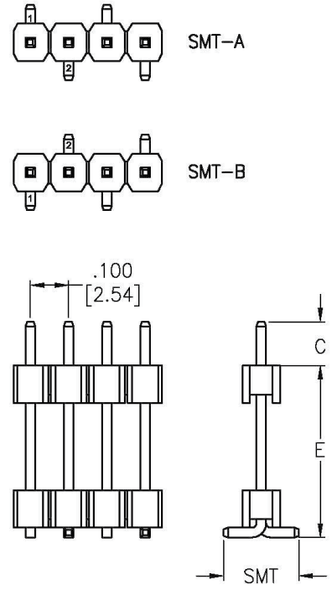
**DPH - 2 - 20 - SG - .XXX"/.XXX"/.XXX - HT**
**“C” DIM. “D” DIM. “E” DIM.**

| SERIES | NO. OF ROWS | POSITIONS | PLATING | STACKING DIMENSIONS | OPTIONS |
|---|---|---|---|---|---|
| **DPH** = *Dual insulator .100"centerline Pin Header* | **1** = *Single row*<br>**2** = *Dual row*<br>**3** = *Three row* | **01** *thru* **40** *(single row)*<br>**04** *thru* **80** *(dual row)*<br>**03** *thru* **120** *(triple row)* | **U** = *Gold plated*<br>**T** = *Tin plated*<br>**MT** = *Matte Tin plated*<br>**SG** = *Gold plating in contact area tin plating on solder tails* | *Specified In Inches As:<br>C” Dim. / “D” Dim. / “E” Dim.<br>Replace “D” Dim. with “SMT” for Surface Mount Option* | *Add designator(s) to end of part number*<br>**SMT** = *Dual Row Surface Mount leads with Hi-Temp insulator for Hi-Temp soldering processes up to 260°C*<br>**SMT-A** = *Surface Mount leads Type A*<br>**SMT-B** = *Surface Mount Leads Type B*<br>**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C*<br>*(Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)*<br>**PP** = *With Cap*<br>**T/R** = *Tape & Reel packaging* |

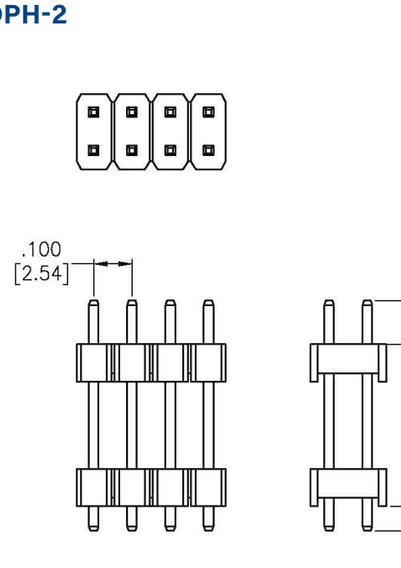
**DPH-1**



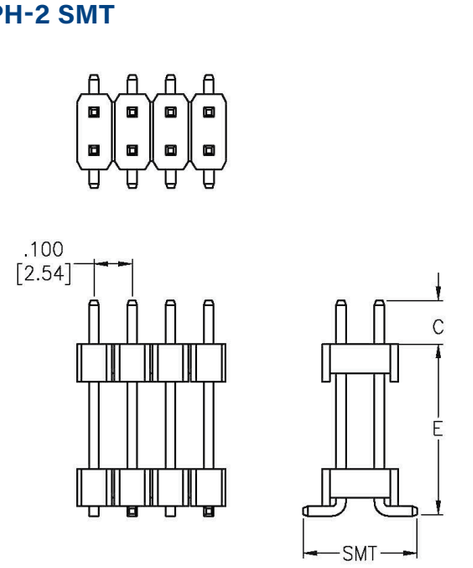

**DPH-1 SMT**




**DPH-2**




**DPH-2 SMT**




| PART NUMBER | PITCH | ROWS | PLATING | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|---|
| DPH-2-XX-SG-.300/.100/.200 | 0.100" [2.54mm] | Dual Row | Selective Gold | Vertical Through Hole | View |

# Shrouded Pin Header Set

.050” [1.27MM] MALE

## FEATURES & SPECIFICATIONS

### FEATURES:

Header set
.050” [1.27mm] pitch
Positions: 10 to 100
Solder termination
Push-pull fastening
Surface mount or through-hole mounting
Vertical or right angle
Square contacts
Various contact lengths
Insulator height options: 0.039” (1.00 mm) to 0.197” (5.00 mm)
Current rating: 1A
Voltage rating: 250 VAC
UL Recognized

### SPECIFICATIONS:

### Material:

Standard insulator: PBT, glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Brass

### Plating:

U = Gold over nickel underplate overall
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

### Electrical:

Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:

Mating durability: 1,000 cycles

### Temperature Rating:

Operating temperature range: -40°C to +105°C
Soldering process temperature: 260°C

### PACKAGING:

Anti-ESD plastic tubes
Tape and Reel available for SMT option

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

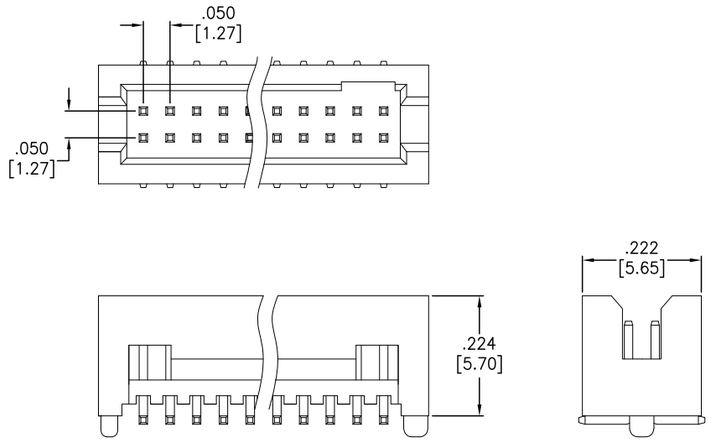
## PART NUMBER CONFIGURATION

**HSH - A - 50 - G - NP**

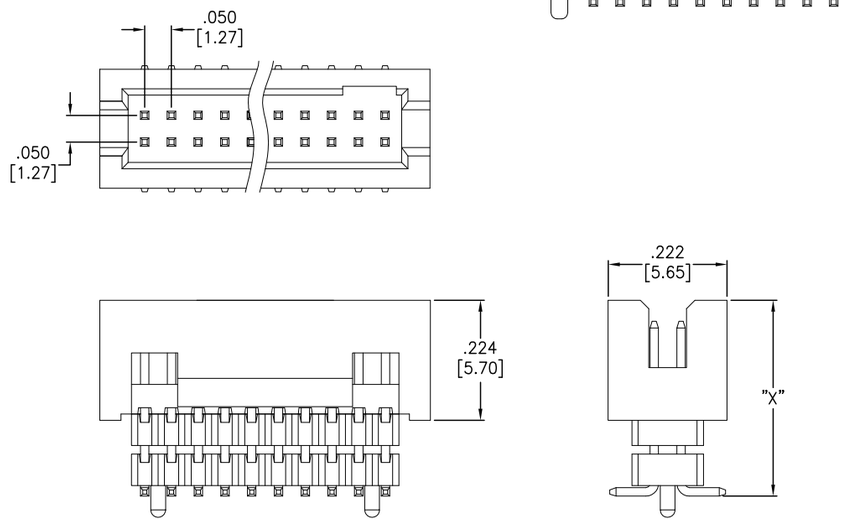
| SERIES | CODE | POSITIONS | PLATING | OPTIONS |
|---|---|---|---|---|
| **HSH** = *.050" Shrouded Header*<br>**HSHE** = *.050 [1.27] Pitch Shrouded Elevated Male Header* | **BLANK**<br>**A**<br>**B**<br>**C**<br>**(A1, D, E)** | **10** *thru* **100** | **G** = *Gold plated*<br>**SG** = *Selectively gold plated*<br>**T** = *Tin plated* | *Add designator(s) to end of part number*<br>**SMT** = *Surface mount leads with Hi-Temp insulator*<br>**P** = *Peg option (thru hole only)*<br>**NP** = *No Peg*<br>**PP** = *With Cap*<br>**T/R** = *Tape & Reel packaging*<br>**BL** = *Boardlock* |

| PART NUMBER | PITCH | ROWS | PLATING | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|---|
| HSH-XX-G | 0.050" [1.27mm] | Dual Row | Gold | Vertical Through Hole | View |
| HSH-XX-G-SMT | 0.050" [1.27mm] | Dual Row | Gold | Vertical Surface Mount | View |
| HSH-XX-G-SMT-PP-TR | 0.050" [1.27mm] | Dual Row | Gold | Vertical Surface Mount | View |
| HSH-XX-SG | 0.050" [1.27mm] | Dual Row | Selective Gold | Vertical Through Hole | View |
| HSH-XX-SG-SMT | 0.050" [1.27mm] | Dual Row | Selective Gold | Vertical Surface Mount | View |
| HSH-XX-SG-SMT-PP-TR | 0.050" [1.27mm] | Dual Row | Selective Gold | Vertical Surface Mount | View |
| HSH-XX-T-SMT | 0.050" [1.27mm] | Dual Row | Tin | Vertical Surface Mount | View |
| HSH-XX-T-SMT-PP-TR | 0.050" [1.27mm] | Dual Row | Tin | Vertical Surface Mount | View |

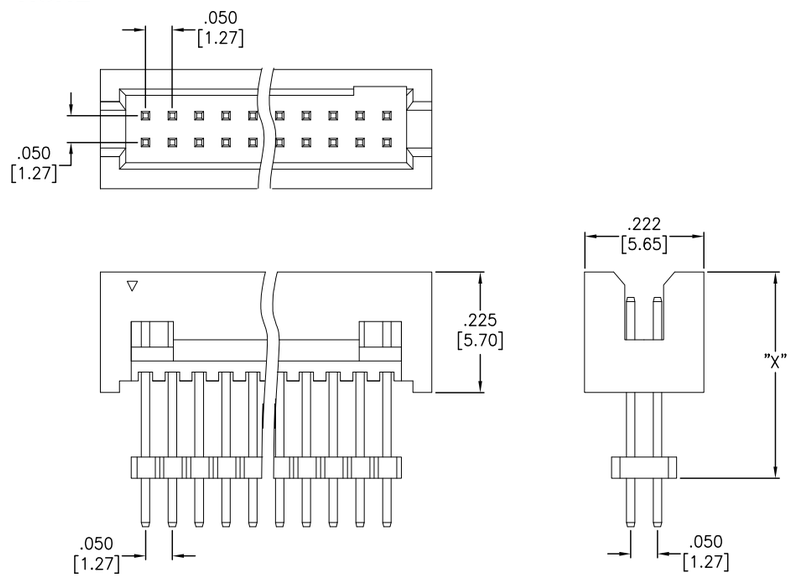
### HSH SMT




### HSHE SMT




### HSHE



# Shrouded Pin Header Set

.050" [1.27MM] FEMALE

## FEATURES & SPECIFICATIONS

### FEATURES:

Header set
.050" [1.27mm] pitch
Positions: 10 to 100
Solder termination
Push-pull fastening
Surface mount or through-hole mounting
Vertical or right angle
Square contacts
Various contact lengths
Insulator height options: 0.039" (1.00 mm) to 0.197" (5.00 mm)
Current rating: 1A
Voltage rating: 250 VAC
UL Recognized

### SPECIFICATIONS:

### Material:

Standard insulator: PBT, glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Brass

### Plating:

U = Gold over nickel underplate overall
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

### Electrical:

Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:

Mating durability: 1,000 cycles

### Temperature Rating:

Operating temperature range: -40°C to +105°C
Soldering process temperature: 260°C

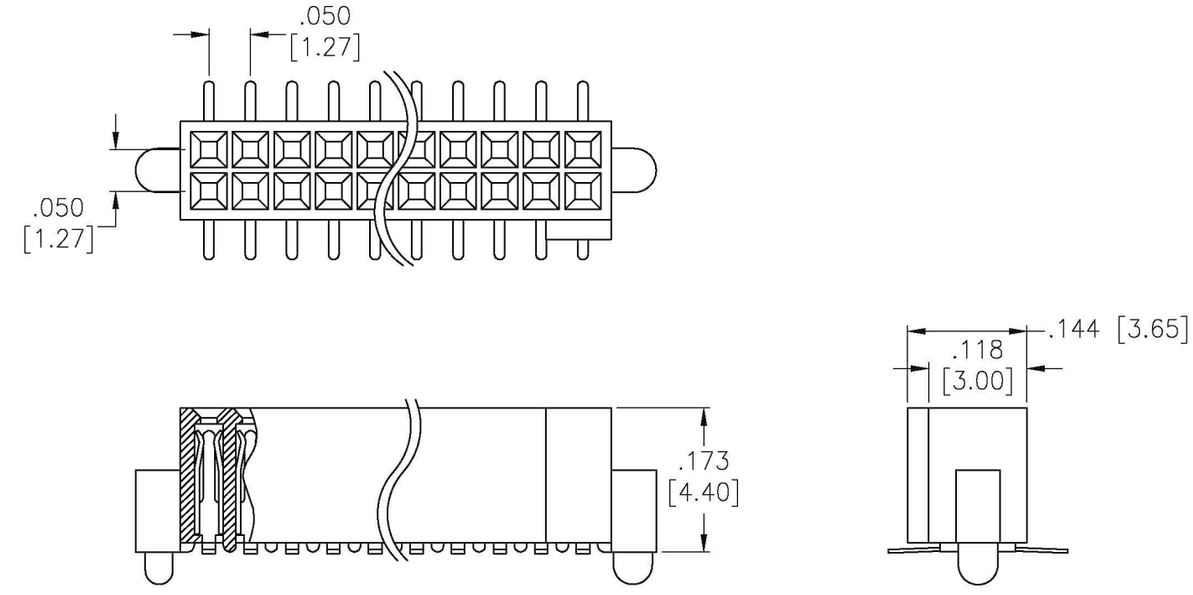
### PACKAGING:

Anti-ESD plastic tubes
Tape and Reel available for SMT option

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

HFH




## PART NUMBER CONFIGURATION

**HFH - 50 - G - RA**

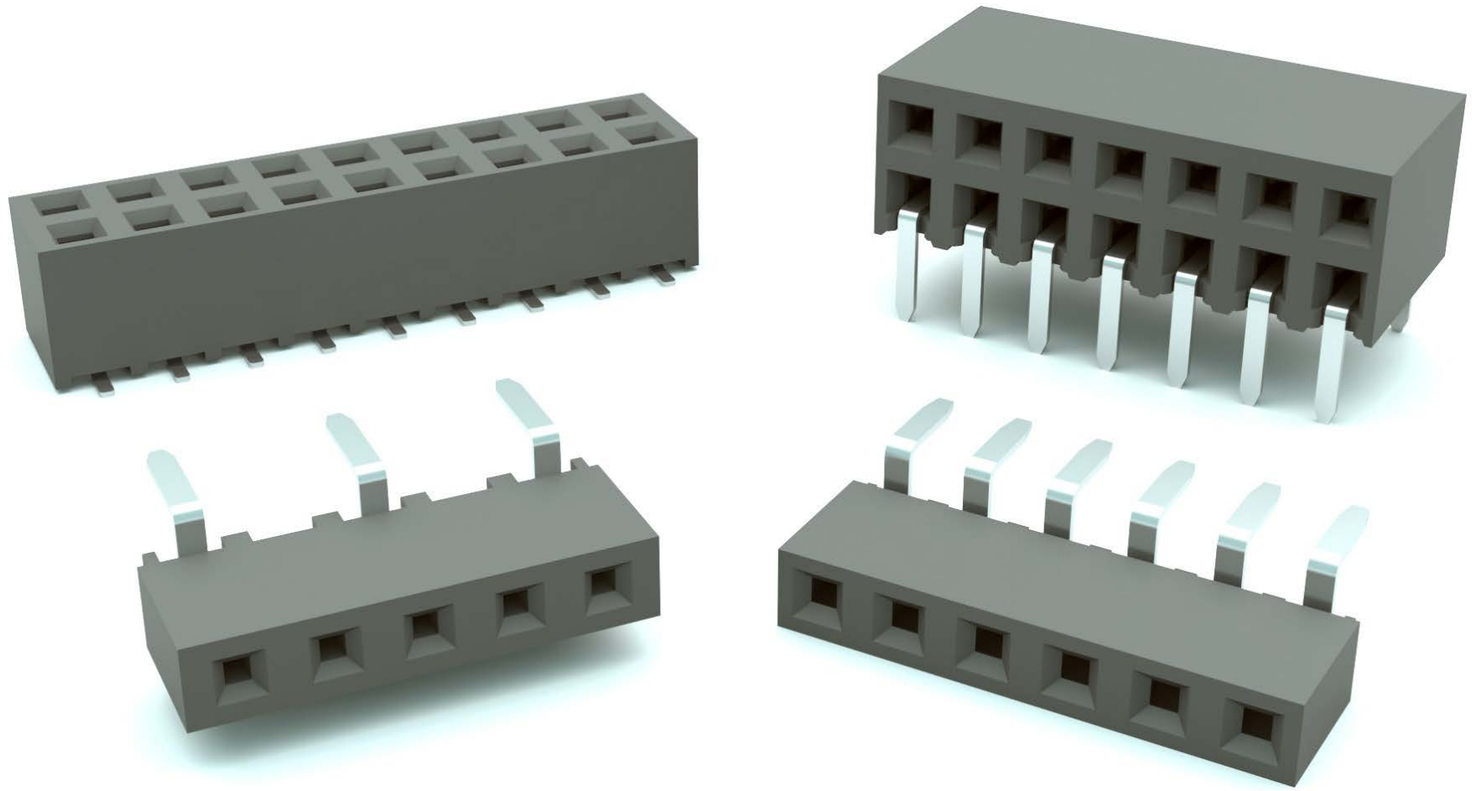
| SERIES | POSITIONS | PLATING | OPTIONS |
|---|---|---|---|
| **HFH** = *.050" Female header* | **10** *thru* **100** | **G** = *Gold plated*<br>**SG** = *Selectively gold plated*<br>**T** = *Tin plated* | *Add designator(s) to end of part number*<br>**SMT** = *Surface mount leads with Hi-Temp insulator*<br>**PP** = *With Cap*<br>**NP** = *No Peg*<br>**NK** = *No Key*<br>**T/R** = *Tape & Reel packaging*<br>**RA** = *Right Angle*<br>**BL** = *Boardlock* |

| PART NUMBER | PITCH | ROWS | PLATING | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|---|
| HFH-XX-G | 0.050" [1.27mm] | Dual Row | Gold | Vertical Through Hole | View |
| HFH-XX-G-SMT | 0.050" [1.27mm] | Dual Row | Gold | Vertical Surface Mount | View |
| HFH-XX-G-SMT-PP-TR | 0.050" [1.27mm] | Dual Row | Gold | Vertical Surface Mount | View |
| HFH-XX-SG | 0.050" [1.27mm] | Dual Row | Selective Gold | Vertical Through Hole | View |
| HFH-XX-SG-SMT | 0.050" [1.27mm] | Dual Row | Selective Gold | Vertical Surface Mount | View |
| HFH-XX-SG-SMT-PP-TR | 0.050" [1.27mm] | Dual Row | Selective Gold | Vertical Surface Mount | View |
| HFH-XX-T-SMT | 0.050" [1.27mm] | Dual Row | Tin | Vertical Surface Mount | View |
| HFH-XX-T-SMT-PP-TR | 0.050" [1.27mm] | Dual Row | Tin | Vertical Surface Mount | View |

# Receptacle Strips

SINGLE AND DUAL ROW RECEPTACLE STRIPS

Adam Tech Receptacle Strips are a series of sockets designed to satisfy most pitch socket requirements. They are available in a variety of sizes, mounting orientations, and profiles. Each type has a specially designed contact system, which utilizes a wiping mating action and produces a high normal force connection with gold, tin, or selective gold plating. All are available with standard or hi-temp thermoplastic insulators.



## FEATURES & SPECIFICATIONS

### FEATURES:

Broad range of sizes and profiles
Contact systems with high normal force
Choice of contact plating
SMT pick & place option
Optional Tape & reel packaging

### PACKAGING:

Anti-ESD plastic bags or tubes
Tape and Reel available for SMT option

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:

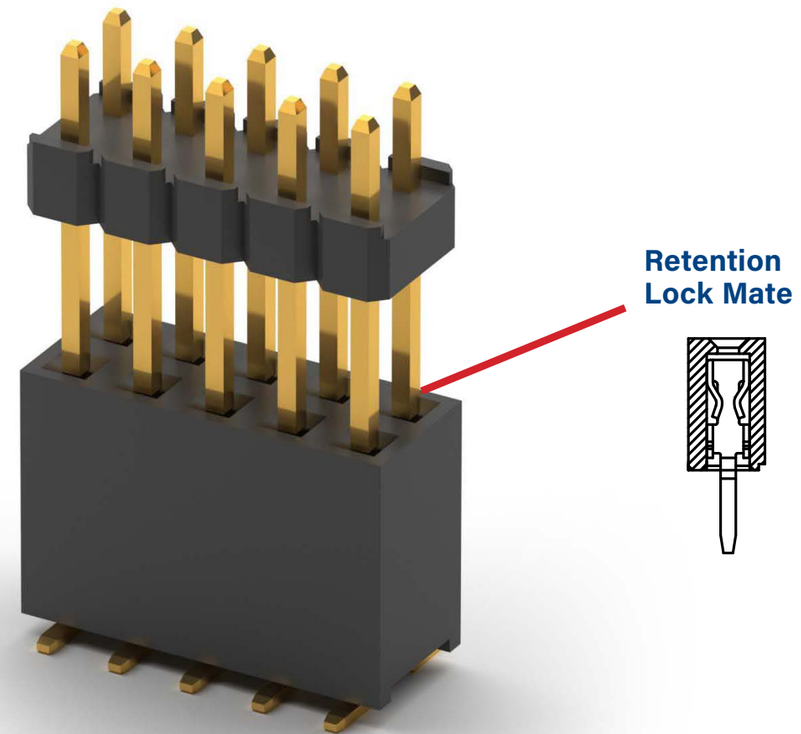
Insulator: PBT, glass reinforeced, rated UL94V-0
Optional Hi-Temp insulator: rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

### Contact Plating:

G = Gold over nickel underplate overall
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

### Temperature Rating:

Operating temperature: -40°C to +105°C



## FEATURES & SPECIFICATIONS

### FEATURES:
Dual row
.031" [0.8mm] pitch
Positions: 4 to 80
Broad range of sizes and profiles
Contact systems with high normal force
Choice of contact plating
SMT pick & place option
Optional Tape & reel packaging

### MATING CONNECTORS:
Adam Tech SPH2 .031" [0.8mm] pitch headers and all industry standard pin headers with a .012" (0.30mm] square pin.

### PACKAGING:
Anti-ESD plastic bags or tubes
Tape and Reel available for SMT option

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Insulator: PBT, glass reinforeced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

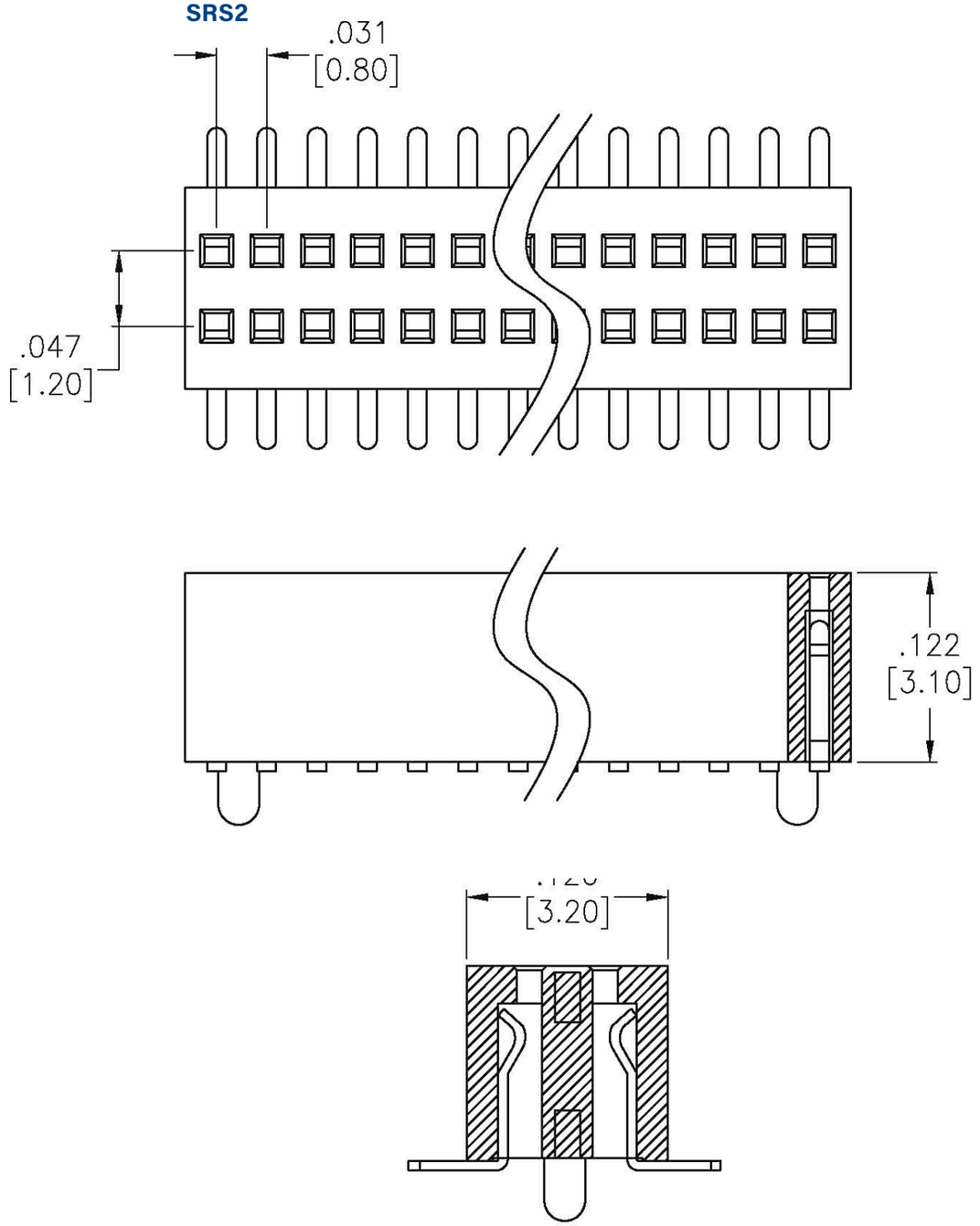
### Contact Plating:
G = Gold over nickel underplate overall
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

### Electrical:
Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Insertion force: 0.375 lbs per contact max.
Withdrawal force: 0.125 lbs per contact min.
Mating durability: 500 cycles min.

### Temperature Rating:
Operating temperature: -40°C to +105°C

SRS2




## PART NUMBER CONFIGURATION

**SRS2 - 20 - SG - SMT - PP**

| SERIES | POSITIONS | PLATING | MOUNTING | OPTIONS |
|---|---|---|---|---|
| **SRS2** = *0.8mm Dual Row Female Header* | **04** *thru* **80** | **U** = *Gold plated*<br>**SG** = *Selectively gold plated*<br>**T** = *Tin plated* | **Blank** = *Thru-hole*<br>**SMT** = *Surface mount* | *Add designator(s) to end of part number*<br>**PP** = *With Cap*<br>**T/R** = *Tape & Reel packaging*<br>**NP** = *No Peg* |

| PART NUMBER | PITCH | ROWS | PLATING | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|---|
| SRS2Y-XX-U-SMT | 0.031" [0.80mm] | Dual Row | Gold | Vertical Surface Mount | View |

## FEATURES & SPECIFICATIONS

### FEATURES:
Dual row
.039" [1.0mm] pitch
Positions: 4 to 80
Broad range of sizes and profiles
Contact systems with high normal force
Choice of contact plating
SMT pick & place option
Optional Tape & reel packaging

### MATING CONNECTORS:
Adam Tech SPH2 series .031" [0.8mm] pitch headers and all industry standard pin headers with a .012" (0.30mm] square pins.

### PACKAGING:
Anti-ESD plastic bags or tubes
Tape and Reel available for SMT option

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Insulator: PBT, glass reinforeced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

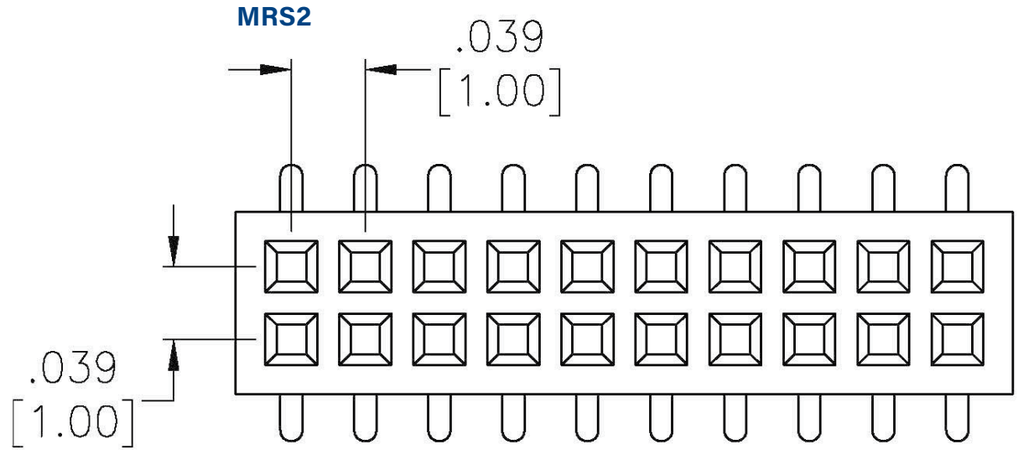
### Contact Plating:
G = Gold over nickel underplate overall
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

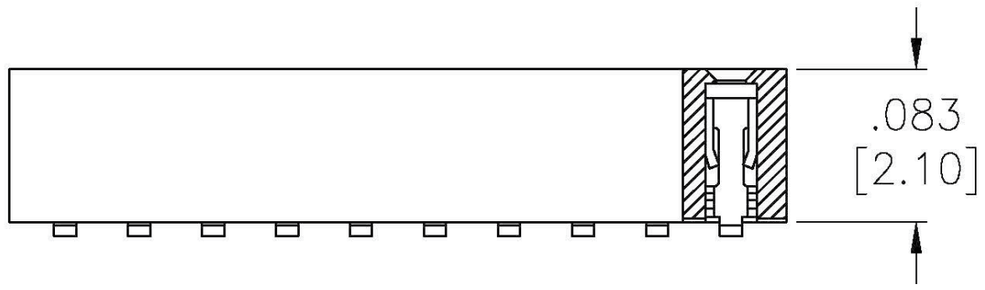
### Electrical:
Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

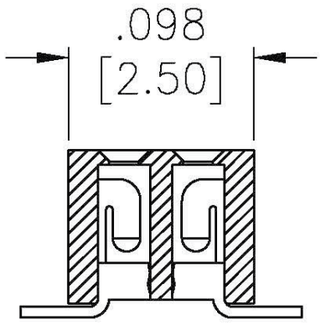
### Mechanical:
Insertion force: 0.375 lbs per contact max.
Withdrawal force: 0.125 lbs per contact min.
Mating durability: 500 cycles min.

### Temperature Rating:
Operating temperature: -40°C to +105°C

MRS2




## PART NUMBER CONFIGURATION

**MRS2 - 20 - SG - SMT - P**

| SERIES | POSITIONS | PLATING | MOUNTING | OPTIONS |
|---|---|---|---|---|
| **MRS2** = *1.0mm Dual Row Female Header* | **04** *thru* **80** | **U** = *Gold plated*<br>**SG** = *Selectively gold plated*<br>**T** = *Tin plated* | **Blank** = *Thru-hole*<br>**SMT** = *Surface mount* | *Add designator(s) to end of part number*<br>**P** = *Peg*<br>**PP** = *With Cap*<br>**T/R** = *Tape & Reel packaging* |

| PART NUMBER | PITCH | ROWS | PLATING | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|---|
| MRS2-XX-SG-SMT | 0.039" [1.00mm] | Dual Row | Selective Gold | Vertical Surface Mount | View |
| MRS2-XX-U-SMT | 0.039" [1.00mm] | Dual Row | Gold | Vertical Surface Mount | View |

# Receptacle Strips

.050" [1.27MM] SINGLE AND DUAL ROW

## FEATURES & SPECIFICATIONS

### FEATURES:
Single and dual row
.050" [1.27mm] pitch
Positions: 2 to 80
Broad range of sizes and profiles
Contact systems with high normal force
Choice of contact plating
SMT pick & place option
Optional Tape & reel packaging

### MATING CONNECTORS:
Adam Tech HPH series headers and all industry standard .050" pitch headers with a .016" (0.40mm] square pins.

### PACKAGING:
Anti-ESD plastic bags or tubes
Tape and Reel available for SMT option

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

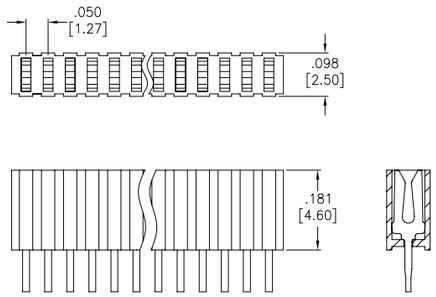
### Material:
Insulator: PBT, glass reinforeced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

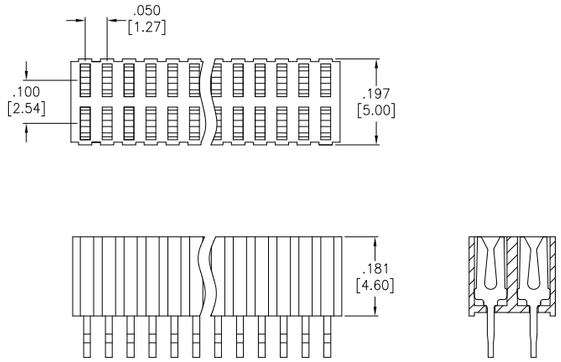
### Contact Plating:
G= Gold over nickel underplate overall
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T= Tin over copper underplate overall

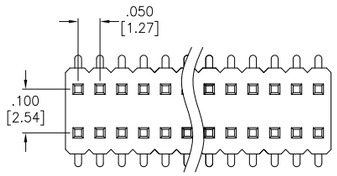
### Electrical:
Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

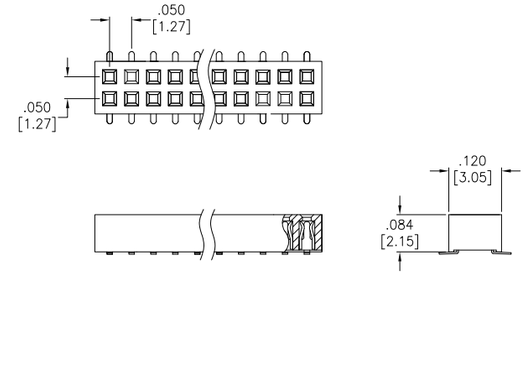
### Mechanical:
Insertion force: 0.375 lbs per contact max.
Withdrawal force: 0.125 lbs per contact min.
Mating durability: 500 cycles min.

### Temperature Rating:
Operating temperature: -40°C to +105°C

### HRS-1B



### HRS-2B



### HRS-2FY


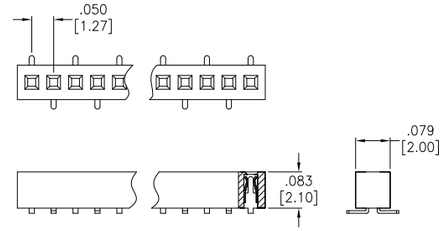

### HRS-2C


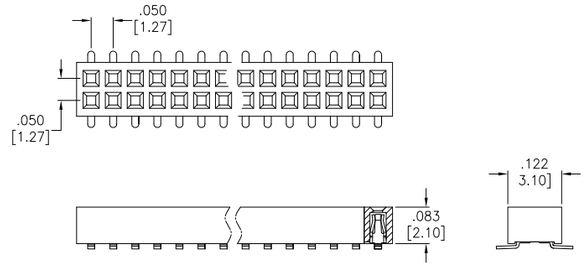

## PART NUMBER CONFIGURATION

| HRS - | 1A - | 50 - | G - | A - | P |
|---|---|---|---|---|---|

| SERIES | NO. OF ROWS / PROFILE | POSITIONS | PLATING | SOLDER TAIL LENGTH | OPTIONS |
|---|---|---|---|---|---|
| **HRS** = .050" Receptacle Strip | See Below: | **02** thru **40** (single row)<br>**04** thru **80** (dual row) | **G** = Gold plated<br>**T** = Tin plated<br>**SG** = Gold plating in contact area tin plating on solder tails | **A** = Standard solder tail for .062"~.125" PCB thickness<br>**SMT** = Surface mount leads (2C, 2E, 2F, 2G only)<br>**SMT-A** = Surface mount leads Type A (1F, 1G only)<br>**SMT-B** = Surface mount leadsType B (1F, 1G only) | Add designator(s) to end of part number<br>**P** = Guide Pegs<br>**HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)<br>**PP** = With Cap<br>**KT** = With Mylar<br>**T/R** = Tape & Reel packaging |

**1A** = Single Row, Standard Profile H=8.50, W=2.50
**1B** = Single Row, Low Profile H=4.60, W=2.50
**1BY** = Single Row, Low Profile H=4.60, W=2.50
**1BE** = Single Row, Low Profile H=2.00, W=1.80
**1BP** = Single Row, .181" Height H=4.60, W=2.60
**1C** = Single Row, .085" Height H=2.15, W=1.80
**1E** = Single Row, .134" Height, (SMT or PCB) H=3.40, W=2.20
**1F** = Single Row (SMT), .224" Height H=5.70, W=2.50
**1G** = Single Row, .077" Height, Top Entry, (SMT) H=1.95, W=1.80
**1K** = Single Row, .169" Height H=4.30, W=2.20
**1KW** = Single Row, .173" Height H=4.40, W=1.80
**1KY** = Single Row, .169" Height H=4.30, W=2.20
**1L** = Single Row, .083" Height H=2.10, W=1.80
**1LY** = Single Row, .083" Height, (SMT) H=2.10, W=2.20
**HRS1R** = Single Row, Right angle H=4.40, W=1.80
**HRS1R-SMT** = Single Row, Right angle H=4.30, W=1.80
**2A** = Dual Row, Standard, Profile .050"x.100" H=8.50, W=5.20
**2B** = Dual Row, Low Profile, .050"x.100" H=4.60, W=5.00
**2BE** = Dual Row, Low Profile, .050"x.100" H=2.00, W=3.10
**2BEY** = Dual Row, Low Profile, .050"x.100" H=2.00, W=3.00
**2C** = Dual Row, Low Profile, .050"x.050" H=2.15, W=3.05
H=2.00, W=3.00 (Terminal : 0.32X0.12)
**2E** = Dual Row, .134" Height, .050"x.050" H=3.40, W=3.05
**2F** = Dual Row, .230" Height, .050"x.100" H=5.75, W=5.00
**2FW** = Dual Row, .224" Height, .050"x.100" H=5.70, W=5.00
**2FY** = Dual Row, .224" Height, .050"x.100" H=5.70, W=5.00
**2G** = Dual Row, .085" Height, .050"x.050" H=2.15, W=3.05
H=2.00, W=3.00 (Terminal : 0.32X0.10)
**2H** = Dual Row, .173" Height, .050"x.050" H=4.40, W=3.00
H=4.40, W=3.10
H=4.30, W=2.97
**2J** = Dual Row, .083" Height, .050"x.050" H=2.10, W=3.10
**2K** = Dual Row, .169" Height, .050"x.050" H=4.30, W=3.10
**2KY** = Dual Row, .169" Height, .050"x.050" H=4.30, W=3.00
**2L** = Dual Row, .083" Height, .050"x.050 H=2.10, W=3.10
**2LY** = Dual Row, .083" Height, .050"x.050 H=2.10, W=3.00

### HRS-1L



### HRS-2L



| PART NUMBER | PITCH | ROWS | PLATING | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|---|
| HRS-1B-XX-GA | 0.050" [1.27mm] | Single Row | Gold | Vertical Through Hole | View |
| HRS-2B-XX-GA | 0.050" [1.27mm] | Dual Row | Gold | Vertical Through Hole | View |
| HRS-2C-XX-G-SMT-P | 0.050" [1.27mm] | Dual Row | Gold | Vertical Surface Mount | View |
| HRS-2C-XX-SG-SMT-P | 0.050" [1.27mm] | Dual Row | Selective Gold | Vertical Surface Mount | View |
| HRS-2FY-XX-SG-SMT | 0.050" [1.27mm] | Dual Row | Selective Gold | Vertical Surface Mount | View |

# Receptacle Strips

.079" [2.0MM] SINGLE AND DUAL ROW

## FEATURES & SPECIFICATIONS

### FEATURES:
Single and dual row
.079" [2.0mm] pitch
Positions: 2 to 80
Broad range of sizes and profiles
Contact systems with high normal force
Choice of contact plating
SMT pick & place option
Optional Tape & reel packaging

### MATING CONNECTORS:
Adam Tech 2PH series headers and all industry standard 2.0mm pitch headers with a .020" (0.50mm] square pins.

### PACKAGING:
Anti-ESD plastic bags or tubes
Tape and Reel available for SMT option

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

#### Material:
Insulator: PBT, glass reinforeced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

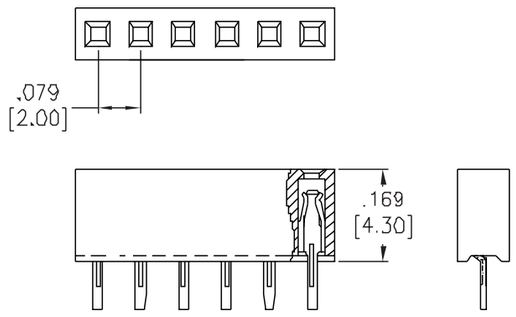
#### Contact Plating:
G = Gold over nickel underplate overall
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

#### Electrical:
Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

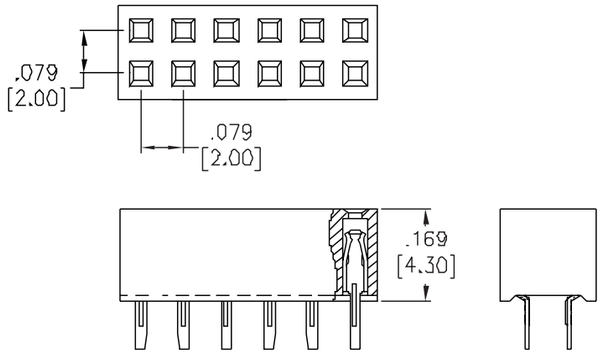
#### Mechanical:
Insertion force: 0.375 lbs per contact max.
Withdrawal force: 0.125 lbs per contact min.
Mating durability: 500 cycles min.

#### Temperature Rating:
Operating temperature: -40°C to +105°C

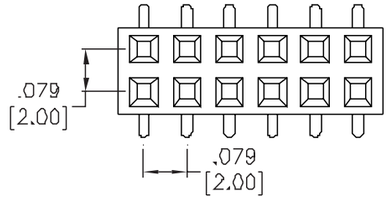
### 2RS1-06-G



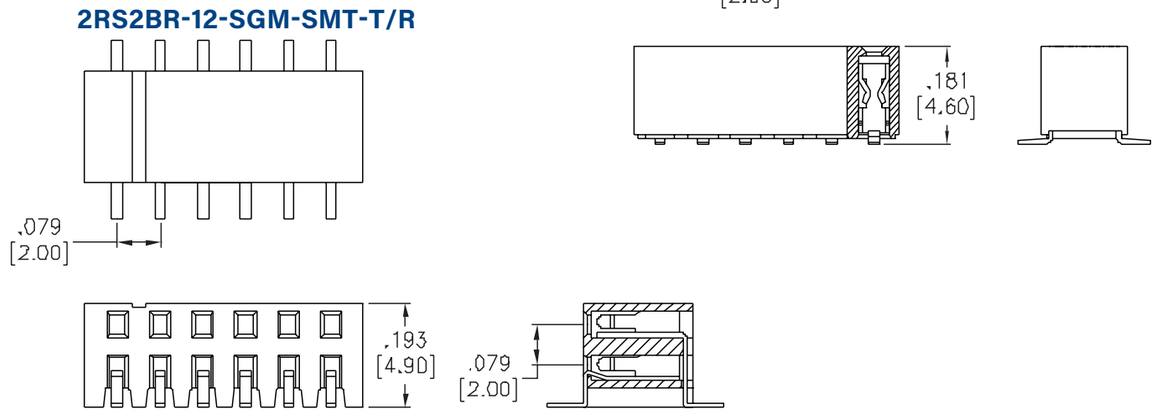

### 2RS2-12-G




### 2RS2W-12-G-SMT




### 2RS2BR-12-SGM-SMT-T/R




## PART NUMBER CONFIGURATION

**2RS1- 40 - G - P**

| SERIES | POSITIONS | PLATING | OPTIONS |
|---|---|---|---|
| *See chart* | **02** *thru* **40** *(single row)*<br>**04** *thru* **80** *(dual row)* | **G** = *Gold plated*<br>**T** = *Tin plated*<br>**SG** = *Gold plating in contact area tin plating on solder tails* | *Add designator(s) to end of part number*<br>**SMT** = *SMT leads with Hi-Temp insulator dual row*<br>**SMT-A** = *SMT Single Row Type A with Hi-Temp insulator*<br>**SMT-B** = *SMT Single Row Type B with Hi-Temp insulator*<br>**P** = *Optional guide peg on SMT version*<br>**PP** = *Pick and place pad*<br>**KT** = *With Mylar*<br>**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)*<br>**T/R** = *Tape & Reel packaging* |

### SERIES INDICATOR CHART

**2RS1** = *2.00mm Single Row, Vertical Mount, Receptacle*
**2RS2** = *2.00mm Dual Row, Vertical Mount, Receptacle*
**2RS2W** = *2.00mm Dual Row, Vertical Mount, .169"Height Dual Entry Receptacle .157"Width, Narrow Type*
**2RS1R** = *2.00mm Single Row, Right Angle, Receptacle*
**2RS2R** = *2.00mm Dual Row, Right Angle, Receptacle*
**2RS4** = *2.00mm 4 Row, Vertical Mount, Receptacle*
**2RS2BR** = *2.00mm Dual Row, Right Angle, 3-Sided Contact Receptacle*
**2RS1BRL** = *2.00mm Single Row, Side Entry, .079"Height .177"Width*
**2RS2BRL** = *2.00mm Dual Row, Side Entry, .157"Height .201"Width*
**2RS1H** = *2.00mm Single Row, Vertical Mount, .248" Height Receptacle*
**2RS2H** = *2.00mm Dual Row, Vertical Mount, .248" Height Receptacle*
**2RS2T** = *2.00 mm Dual Row, Surface Mount, .110" Height, Top Entry Receptacle*
**2RS2B** = *2.00mm Dual Row, Surface Mount, .106" Height, Bottom Entry Receptacle*
**2RS1L** = *2.00mm Single Row, Vertical Mount, Receptacle .157"Height .098"Width (wcon)*
**2RS2L** = *2.00mm Dual Row, Vertical Mount, .157" Height Receptacle*

| PART NUMBER | PITCH | ROWS | PLATING | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|---|
| 2RS1-XX-G | 0.079" [2.00mm] | Single Row | Gold | Vertical Through Hole | View |
| 2RS1-XX-SG | 0.079" [2.00mm] | Single Row | Selective Gold | Vertical Through Hole | View |
| 2RS1-XX-T | 0.079" [2.00mm] | Single Row | Tin | Vertical Through Hole | View |
| 2RS2-XX-G | 0.079" [2.00mm] | Dual Row | Gold | Vertical Through Hole | View |
| 2RS2-XX-SG | 0.079" [2.00mm] | Dual Row | Selective Gold | Vertical Through Hole | View |
| 2RS2-XX-T | 0.079" [2.00mm] | Dual Row | Tin | Vertical Through Hole | View |
| 2RS2R-XX-G | 0.079" [2.00mm] | Dual Row | Gold | Right Angle Through Hole | View |
| 2RS2R-XX-SG | 0.079" [2.00mm] | Dual Row | Selective Gold | Right Angle Through Hole | View |
| 2RS2R-XX-T | 0.079" [2.00mm] | Dual Row | Tin | Right Angle Through Hole | View |

## FEATURES & SPECIFICATIONS

### FEATURES:
Single and dual row
.079” [2.0mm] pitch
Positions: 2 to 80
Elevated
Broad range of sizes and profiles
Contact systems with high normal force
Choice of contact plating
SMT pick & place option
Optional Tape & reel packaging

### MATING CONNECTORS:
Adam Tech 2PH series headers and all industry standard 2.0mm pitch headers with a .020" (0.50mm] square pins.

### PACKAGING:
Anti-ESD plastic bags or tubes
Tape and Reel available for SMT option

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Insulator: PBT, glass reinforeced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

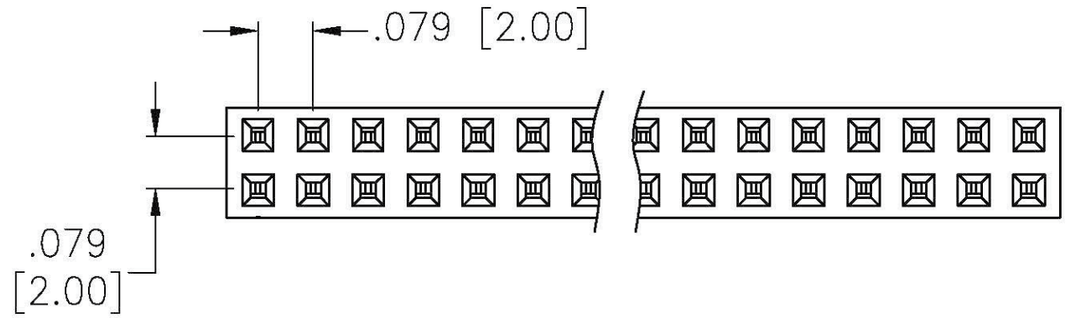
### Contact Plating:
G = Gold over nickel underplate overall
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

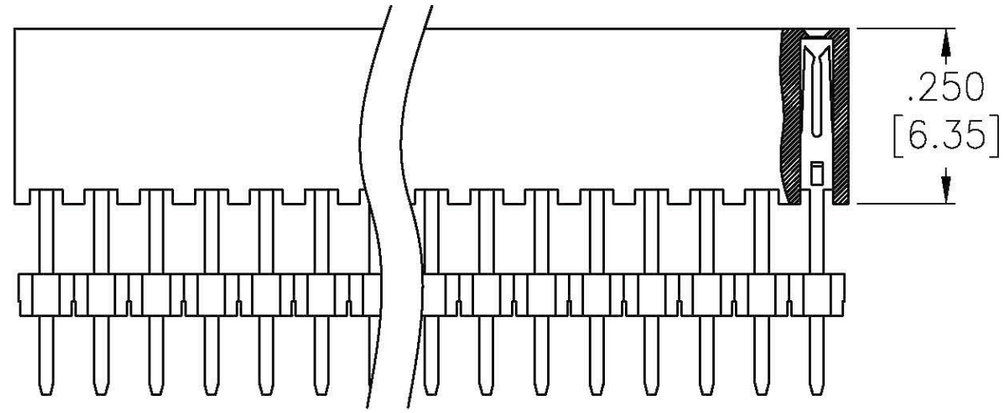
### Electrical:
Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

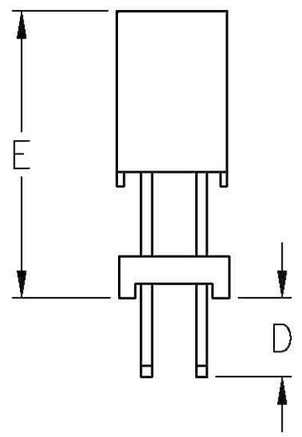
### Mechanical:
Insertion force: 0.375 lbs per contact max.
Withdrawal force: 0.125 lbs per contact min.
Mating durability: 500 cycles min.

### Temperature Rating:
Operating temperature: -40°C to +105°C

**2RS32H**




## PART NUMBER CONFIGURATION

| 2RSE2H | - 1H | - 20 | - SG | - .XXX"/.XXX" “D” DIM. “E” DIM. | - HT |
|---|---|---|---|---|---|
| **SERIES** | **NO. OF ROWS** | **POSITIONS** | **PLATING** | **STACKING DIMENSIONS** | **OPTIONS** |
| **2RSE2H** *= 2.0mm Receptacle Strip Elevated* | **1H** *= Single row*<br>**2H** *= Duak row* | **02** *thru* **40** *(single row)*<br>**04** *thru* **80** *(dual row)* | **G** *= Gold plated*<br>**T** *= Tin plated*<br>**SG** *= Gold plating in contact area tin plating on solder tails* | *Specified In Inches As: D” Dim. / “E” Dim.* | *Add designator(s) to end of part number*<br>**HT** *= Hi-Temp insulator for Hi-Temp soldering processes up to 260°C* |

| PART NUMBER | PITCH | ROWS | PLATING | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|---|
| 2RSE2H-XX-G-XXX-YYY-HT | 0.079" [2.00mm] | Dual Row | Gold | Vertical Through Hole | View |

# Receptacle Strips

.100” [2.54MM] SINGLE AND DUAL ROW

## FEATURES & SPECIFICATIONS

### FEATURES:
Single and dual row
.100” [2.54mm] pitch
Positions: 1 to 80
Broad range of sizes and profiles
Contact systems with high normal force
Choice of contact plating
SMT pick & place option
Optional Tape & reel packaging

### MATING CONNECTORS:
Adam Tech PH series .100" pitch pin headers and all industry standard pin headers with a .025" (0.64mm] square pin.

### PACKAGING:
Anti-ESD plastic bags or tubes
Tape and Reel available for SMT option

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Insulator: PBT, glass reinforeced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

### Contact Plating:
G = Gold over nickel underplate overall
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

### Electrical:
Operating voltage: 250V AC max.
Current rating: 3 Amps max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Insertion force: 0.375 lbs per contact max.
Withdrawal force: 0.125 lbs per contact min.
Mating durability: 500 cycles min.

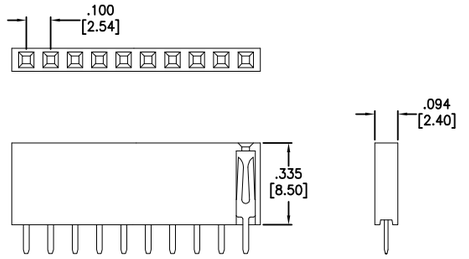
### Temperature Rating:
Operating temperature: -40°C to +105°C

## PART NUMBER CONFIGURATION

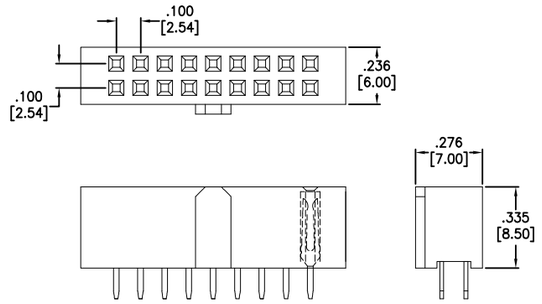
**RS1 - 10 - G - P**

| SERIES | POSITIONS | PLATING | OPTIONS |
|---|---|---|---|
| **RS1** = *Single row vertical mount receptacle .335 [8.50] Insulator height*<br>**RS1R** = *Single row right angle mount receptacle .335 [8.50] Insulator height*<br>**RS2** = *Dual row vertical mount receptacle .335 [8.50] Insulator height*<br>**RS2R** = *Dual row right angle mount receptacle .335 [8.50] Insulator height*<br>**RS2H**= *Dual row vertical mount receptacle .433 [11.00] Insulator height*<br>**RSB** = *Dual row straight PCB mount with polarization bump and keyed corner contacts .335 [8.50] Insulator height*<br>**RSBR** = *Dual row right angle PCB mount with polarization bump and keyed corner contacts .335 [8.50] Insulator height*<br>**RSM1** = *Single row surface mount .280 [7.10] Insulator height*<br>**RSM2** = *Dual row surface mount .280 [7.10] Insulator height*<br>**RS2L** = *Dual row vertical mount receptacle .224 [5.70] Insulator height*<br>**RS2LR** = *Dual row right angle mount receptacle .224 [5.70] Insulator height* | **02** *thru* **40** *(single row)*<br>**04** *thru* **80** *(dual row)*<br>**08** *thru* **120** *(four row)* | **G** = *Gold plated*<br>**T** = *Tin plated*<br>**SG** = *Gold plating in contact area tin plating on solder tails* | *Add designator(s) to end of part number*<br>**SMT** = *SMT Dual row with Hi-Temp insulator*<br>**SMT-A** = *SMT Single Row Type A with Hi-Temp insulator*<br>**SMT-B** = *SMT Single Row Type B with Hi-Temp insulator*<br>**P** = *Optional guide peg on SMT version*<br>**HT** = *Hi-Temp Insulator (thru-hole products only)*<br>**T/R** = *Tape & Reel packaging*<br>**PB** = *Polarizing Bump*<br>**PP** = *Pick and place cap* |

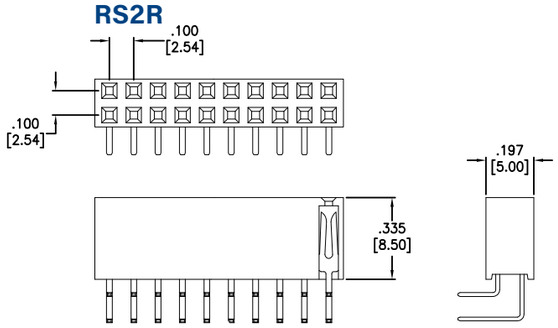
### RS1



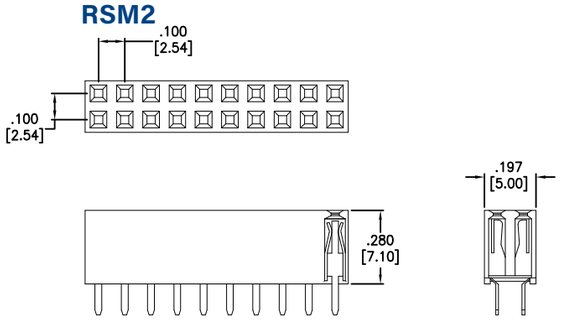

### RSB



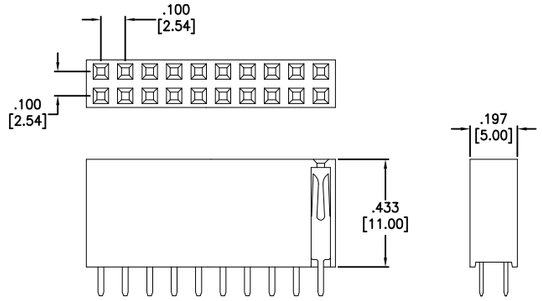

### RS2R



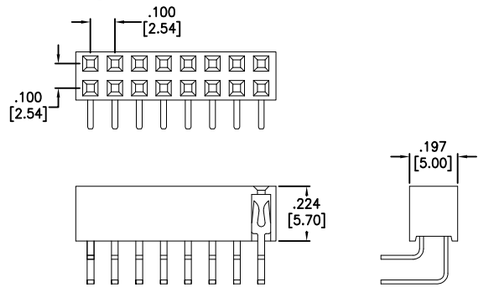

### RSM2




### RS2H




### RS2LR




| PART NUMBER | PITCH | ROWS | PLATING | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|---|
| RS1-XX-G | 0.100" [2.54mm] | Single Row | Gold | Vertical Through Hole | View |
| RS1-XX-SG | 0.100" [2.54mm] | Single Row | Selective Gold | Vertical Through Hole | View |
| RS1-XX-T | 0.100" [2.54mm] | Single Row | Tin | Vertical Through Hole | View |
| RS2-XX-G | 0.100" [2.54mm] | Dual Row | Gold | Vertical Through Hole | View |
| RS2-XX-SG | 0.100" [2.54mm] | Dual Row | Selective Gold | Vertical Through Hole | View |
| RS2-XX-T | 0.100" [2.54mm] | Dual Row | Tin | Vertical Through Hole | View |
| RS2BE-XX-G-SMT | 0.100" [2.54mm] | Dual Row | Gold | Vertical Surface Mount | View |
| RS2BE-XX-SG-SMT-P | 0.100" [2.54mm] | Dual Row | Selective Gold | Vertical Surface Mount | View |
| RS2BE-XX-T-SMT-PP | 0.100" [2.54mm] | Dual Row | Tin | Vertical Surface Mount | View |
| RS2BR-XX-G | 0.100" [2.54mm] | Dual Row | Gold | Right Angle Through Hole | View |
| RS2BR-XX-SG | 0.100" [2.54mm] | Dual Row | Selective Gold | Right Angle Through Hole | View |
| RS2BR-XX-T-HT | 0.100" [2.54mm] | Dual Row | Tin | Right Angle Through Hole | View |
| RS2R-XX-SG | 0.100" [2.54mm] | Dual Row | Selective Gold | Right Angle Through Hole | View |

# Receptacle Strips

.100” [2.54MM] SINGLE AND DUAL ROW ELEVATED

## FEATURES & SPECIFICATIONS

### FEATURES:
Single and dual row
.100” [2.54mm] pitch
Positions: 1 to 80
Elevated
Broad range of sizes and profiles
Contact systems with high normal force
Choice of contact plating
SMT pick & place option
Optional Tape & reel packaging

### MATING CONNECTORS:
Adam Tech PH series .100" pitch pin headers and all industry standard pin headers with a .025" (0.64mm) square pin.

### PACKAGING:
Anti-ESD plastic bags or tubes
Tape and Reel available for SMT option

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Insulator: PBT, glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

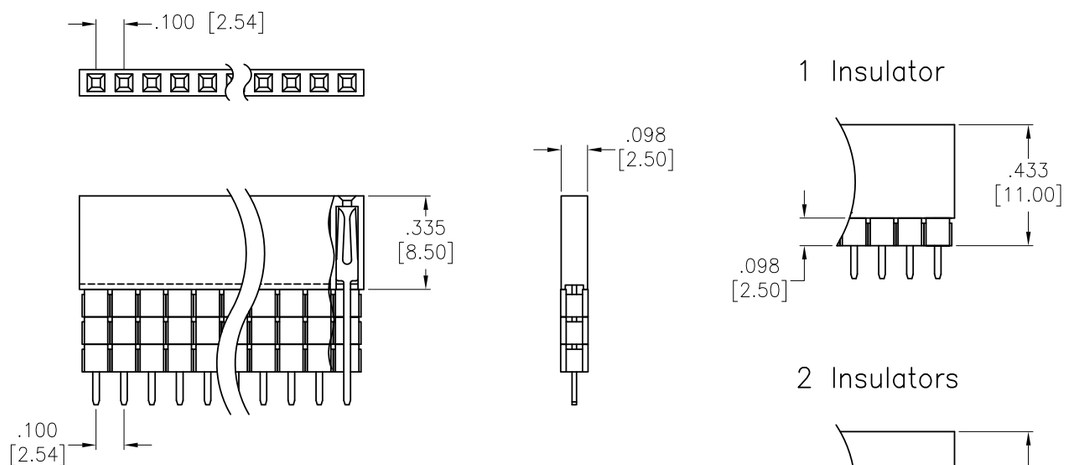
### Contact Plating:
G = Gold over nickel underplate overall
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

### Electrical:
Operating voltage: 250V AC max.
Current rating: 3 Amps max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

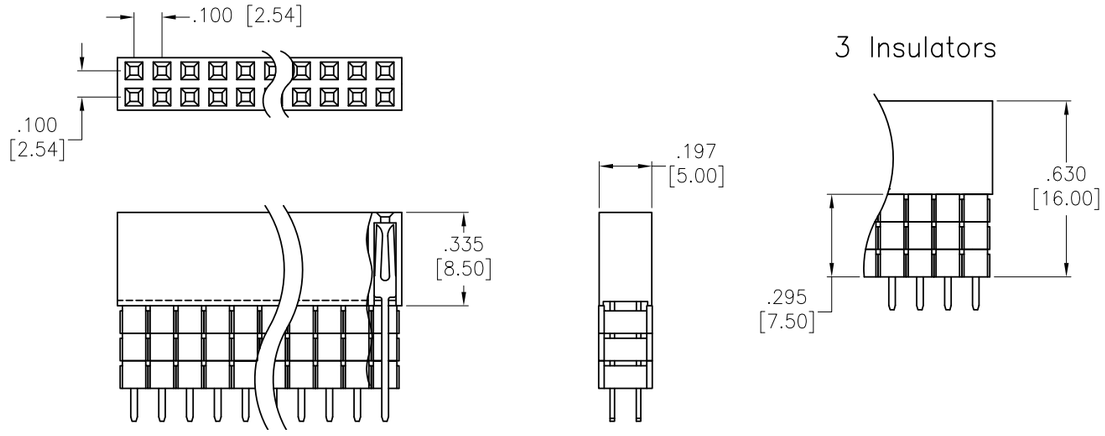
### Mechanical:
Insertion force: 0.375 lbs per contact max.
Withdrawal force: 0.125 lbs per contact min.
Mating durability: 500 cycles min.

### Temperature Rating:
Operating temperature: -40°C to +105°C

## RSE1 (SINGLE ROW)




## RSE2 (DUAL ROW)




## PART NUMBER CONFIGURATION

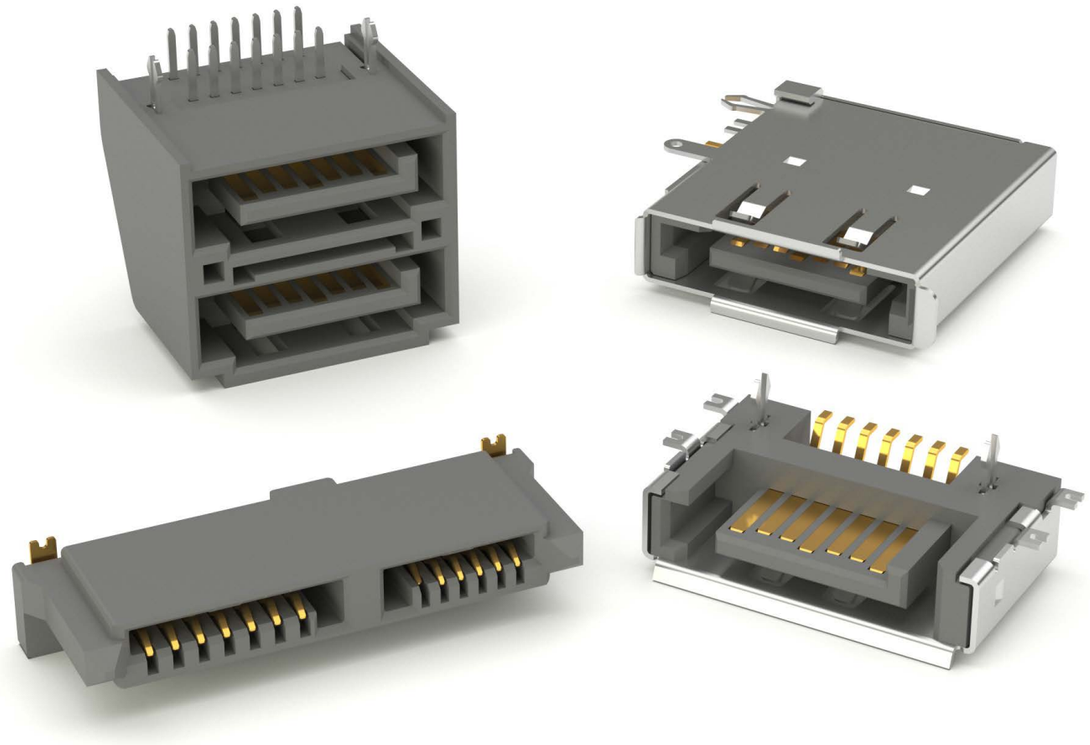
| RSE1 | - | 1 | - | 20 | - | G | - | X |
|---|---|---|---|---|---|---|---|---|
| **SERIES** | | **HEIGHT** | | **POSITIONS** | | **PLATING** | | **TAIL LENGTH** |
| **RSE1** = *Single row vertical elevated socket strip*<br>**RSE2** = *Dual row vertical elevated socket strip* | | **1** = *.433 [11.0]*<br>**2** = *.531 [13.50]*<br>**3** = *.630 [16.0]* | | **01** *thru* **40** *(single row)*<br>**02** *thru* **80** *(dual row)* | | **G** = *Gold plated*<br>**T** = *Tin plated*<br>**SG** = *Gold plating in contact area tin plating on solder tails* | | *See Drawing* |

| PART NUMBER | PITCH | ROWS | PLATING | MOUNTING ORIENTATION | PRODUCT DATA |
|---|---|---|---|---|---|
| RSE1-1-XX-G-X | 0.100" [2.54mm] | Single Row | Gold | Vertical Through Hole | View |
| RSE1-2-XX-G-X | 0.100" [2.54mm] | Single Row | Gold | Vertical Through Hole | View |
| RSE1-3-XX-G-X | 0.100" [2.54mm] | Single Row | Gold | Vertical Through Hole | View |
| RSE2-1-XX-G-X | 0.100" [2.54mm] | Dual Row | Gold | Vertical Through Hole | View |
| RSE2-2-XX-G-X | 0.100" [2.54mm] | Dual Row | Gold | Vertical Through Hole | View |
| RSE2-3-XX-G-X | 0.100" [2.54mm] | Dual Row | Gold | Vertical Through Hole | View |

# SATA Connectors

## SATA & ESATA

Adam Tech SATA and eSATA series Serial ATA connectors combine hot-plug capability with a combination of power and signal contacts in a blind-mate design. They are ideal for connecting disc drives to backplanes in servers or network equipment. Adam Tech SATA connectors are designed with differential-pair signaling technology and are precision manufactured to consistently perform at speeds up to 3.0 Gbits/s.



## FEATURES & SPECIFICATIONS

### FEATURES:
Meets SCA Interconnection Standards
40P Fiber Channel and 80P SCSI compatible
Intermatable Industry Standard Design

### MATING CONNECTORS:
Adam Tech SATA & eSATA series plugs and all industry standard
SATA plugs.

### PACKAGING:
Anti-ESD plastic trays or tubes

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Insulator: Hi-Temp thermoplastic, glass filled, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

### Plating:
Gold over nickel underplate on mating area, tin over copper underplate on tails

### Electrical:
Operating Voltage: 30V AC
Current Rating: 1.5 Amps Max.
Contact Resistance: 30 mΩ Max. initial
Insulation Resistance: 1000 MΩ Min.
Dielectric Withstanding Voltage: 500V AC for 1 Minute

### Mechanical:
Insertion force: 10.20 lbs max.
Withdrawal force: 2.25 lbs min.

### Temperature Rating:
Operating Temperature: -55°C to +85°C
Soldering process temperature: 260°C

## PART NUMBER CONFIGURATION

**SATA - A - PL - VT - K**

| SERIES | BODY STYLE | POLARIZATION | MOUNTING | OPTIONS: |
|---|---|---|---|---|
| **SATA** = *Serial ATA Connector* | **A** *thru* **Z** | **PL** = *Left Polarization*<br>**PR** = *Right Polarization*<br>**PM** = *Type G*<br>**NP** = *No Polarization* | **VT** = *Verticle Thru-hole*<br>**RT** = *Right Angle Thru-hole*<br>**SM** = *Straddle mount*<br>**SMT** = *Surface mount* | *Add designator(s) to end of part number*<br>**K** = *Key*<br>**S** = *Side slots (type D)*<br>**P** = *Locating Pegs* |

| PART NUMBER | GENDER | MOUNTING ORIENTATION | STYLE | POLARIZATION | PRODUCT DATA |
|---|---|---|---|---|---|
| SATA-3A-PL-VT-K | Male | Vertical Thru Hole | Single | Left Polarization | View |
| SATA-A-7P-F-0M | Female | Solder Overmolding Type | Single | Left Polarization | View |
| SATA-A-PL-SMT-K | Male | Right Angle Surface Mount | Single | Left Polarization | View |
| SATA-A-PL-SMT-K-15 | Male | Right Angle Surface Mount | Single | Left Polarization | View |
| SATA-A-PL-SMT-K-15-KT-TR | Male | Right Angle Surface Mount | Single | Left Polarization | View |
| SATA-A-PL-VT-K | Male | Vertical Thru Hole | Single | Left Polarization | View |
| SATA-A-PL-VT-K-X | Male | Vertical Thru Hole | Single | Left Polarization | View |
| SATA-A1-PL-RT-K | Male | Right Angle Thru Hole | Single | Left Polarization | View |
| SATA-A11-PM-SMT | Female | Right Angle Surface Mount | Dual | Middle Polarization | View |
| SATA-A12-PM-SMT-P-30-R | Male | Right Angle Surface Mount | Dual | Middle Polarization | View |
| SATA-A13-PM-SMT-P-E-15 | Female | Vertical Surface Mount | Dual | Middle Polarization | View |
| SATA-A14-PM-SMT | Female | Right Angle Surface Mount | Dual | Middle Polarization | View |
| SATA-A16-PL-VT-K | Male | Vertical Thru Hole | Single | Left Polarization | View |
| SATA-A2-PM-VSMT-P | Female | Right Angle Surface Mount | Dual | Middle Polarization | View |
| SATA-A3-PL-VT-K | Male | Vertical Thru Hole | Single | Left Polarization | View |
| SATA-A4-PM-VT-15 | Female | Vertical Thru Hole | Dual | Middle Polarization | View |
| SATA-A4-PM-VT-P-01-30 | Female | Vertical Thru Hole | Dual | Middle Polarization | View |
| SATA-A4-PM-VT-SMT | Female | Vertical Surface Mount | Dual | Middle Polarization | View |
| SATA-A5-PR-SMT | Male | Right Angle Surface Mount | Single | Right Polarization | View |
| SATA-A5-PR-SMT-PEG | Male | Right Angle Surface Mount | Single | Right Polarization | View |
| SATA-A6-NP-VT | Male | Vertical Thru Hole | Single | No Polarization | View |
| SATA-A7-NP-RT | Male | Right Angle Thru Hole | Single | No Polarization | View |

# SATA Connectors

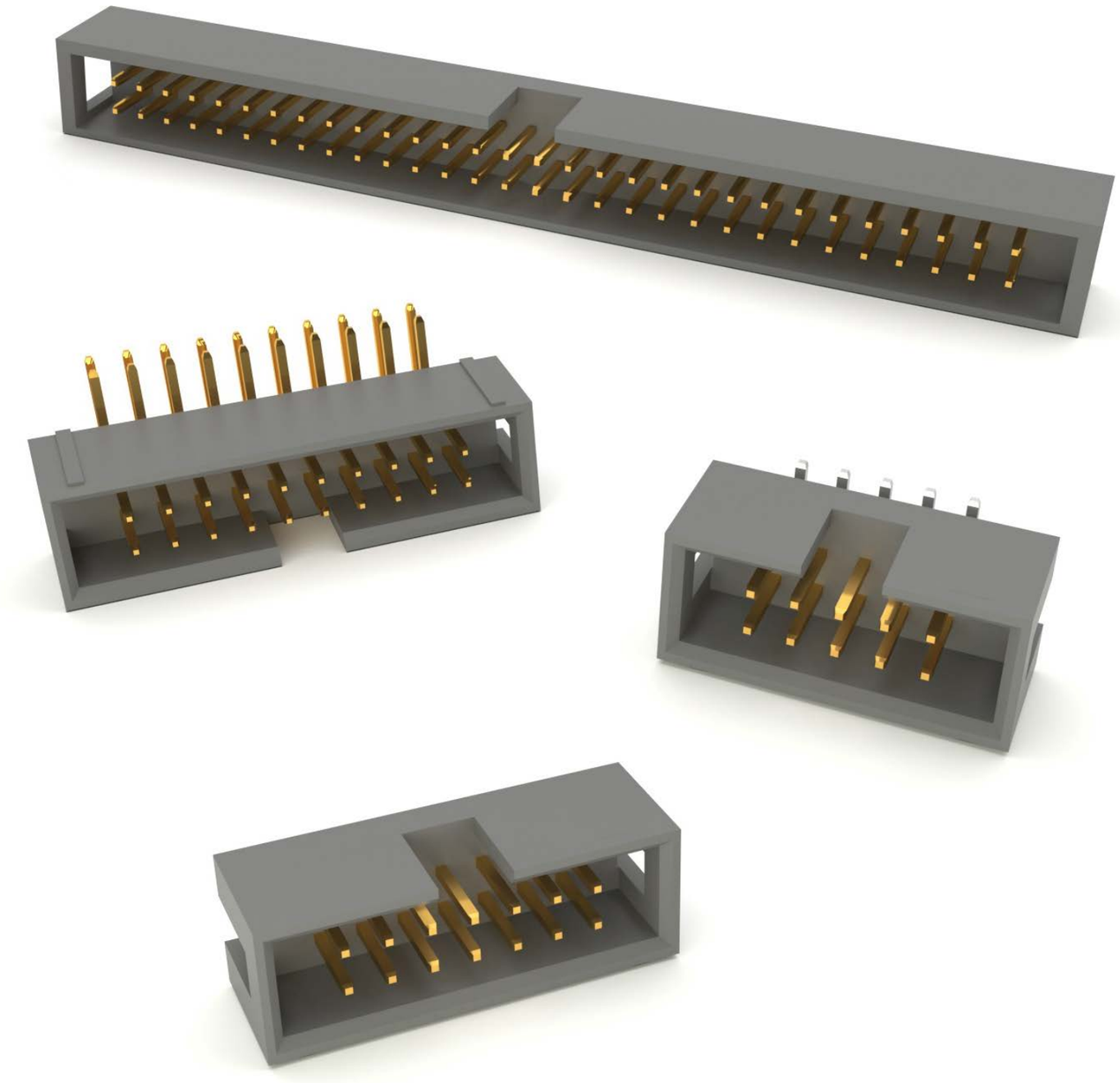
## SATA & ESATA

| PART NUMBER | GENDER | MOUNTING ORIENTATION | STYLE | POLARIZATION | PRODUCT DATA |
|---|---|---|---|---|---|
| SATA-A8-PM-SM-30 | Male | Straddle Mount | Dual | Middle Polarization | View |
| SATA-A9-PR-RT-15 | Male | Right Angle Surface Mount | Single | Right Polarization | View |
| SATA-A9-PR-RT-F-S-15 | Male | Solder Type | Single | Right Polarization | View |
| SATA-B-PL-SMT-K-BL | Male | Right Angle Surface Mount | Single | Left Polarization | View |
| SATA-B-PR-RT | Male | Right Angle Thru Hole | Single | Right Polarization | View |
| SATA-C-PL-SMT-K | Male | Right Angle Surface Mount | Single | Left Polarization | View |
| SATA-C-PR-SMT-K-15 | Male | Right Angle Surface Mount | Single | Right Polarization | View |
| SATA-C-PR-VT-BL-15 | Male | Vertical Thru Hole | Single | Right Polarization | View |
| SATA-C-PR-VT-P-L1-15 | Male | Vertical Thru Hole | Single | Right Polarization | View |
| SATA-C1-PR-SMT-K-15 | Male | Right Angle Surface Mount | Single | Right Polarization | View |
| SATA-C2-PR-VT-SMT-K | Male | Vertical Surface Mount | Single | Right Polarization | View |
| SATA-CH-A-15P | Female | Crimp and poke | Single | No Polarization | View |
| SATA-CH-B-15P | Female | Crimp and poke | Single | No Polarization | View |
| SATA-CTA-SG-R | Female | | Single | | View |
| SATA-CTB-SG-R | Female | | Single | | View |
| SATA-D-PL-RT | Male | Right Angle Thru Hole | Dual | Left Polarization | View |
| SATA-D-PL-SMT-S-K | Male | Right Angle Surface Mount | Dual | Left Polarization | View |
| SATA-D-PL-SMT-S-OB-TR | Male | Right Angle Surface Mount | Dual | Left Polarization | View |
| SATA-D-SMT-FS-001 | Male | Right Angle Surface Mount | Dual | Left Polarization | View |
| SATA-E-PR-SMT-K | Male | Right Angle Surface Mount | Dual | Left Polarization | View |
| SATA-F-PL-VT-K-P | Male | Vertical Thru Hole | Dual | Left Polarization | View |
| SATA-G-PM-001 | Male | SMT Straddle Mount | Dual | Middle Polarization | View |
| SATA-G-PM-SM | Male | Straddle Mount | Dual | Middle Polarization | View |
| SATA-G-PM-SM-PDG | Male | SMT Straddle Mount | Dual | Middle Polarization | View |
| SATA-G-PM-SMT | Male | Vertical Surface Mount | Dual | Middle Polarization | View |
| SATA-G-PM-SMT-PDG | Male | Vertical Surface Mount | Dual | Middle Polarization | View |
| SATA-G-PM-VT-15 | Male | Vertical Thru Hole | Dual | Middle Polarization | View |
| SATA-G1-PM-SMT | Female | Vertical Surface Mount | Dual | Middle Polarization | View |
| SATA-G2-PM-SMT-RT | Female | Right Angle Surface Mount | Dual | Middle Polarization | View |
| SATA-G2-PM-SMT-RT-15 | Female | Right Angle Surface Mount | Dual | Middle Polarization | View |
| SATA-G2-PM-SMT-RT-5 | Female | Right Angle Surface Mount | Dual | Middle Polarization | View |
| SATA-G2-PM-SMT-RT-R-15 | Female | Right Angle Surface Mount | Dual | Middle Polarization | View |
| SATA-G3-PM-F-OM | Female | Solder Overmolding Type | Dual | Middle Polarization | View |
| SATA-G4-PM-SMT-RA-TR | Male | Right Angle Surface Mount | Dual | Middle Polarization | View |
| SATA-H-PM-RT-15 | Female | Right Angle Thru Hole | Dual | Middle Polarization | View |
| SATA-H-PM-SMT | Female | Right Angle Surface Mount | Dual | Middle Polarization | View |
| SATA-H-PM-SMT-FS-PG-R | Female | Right Angle Surface Mount | Dual | Middle Polarization | View |
| SATA-J-NP-RT-P-S-PG-1 | Male | Right Angle Thru Hole | Single | No Polarization | View |
| SATA-J-NP-RT-P-S-PG-2 | Male | Right Angle Thru Hole | Single | No Polarization | View |
| SATA-J-NP-SMT-P-S-PG | Male | Right Angle Surface Mount | Single | No Polarization | View |
| SATA-J-NP-SMT-P-S-PG-15 | Male | Right Angle Surface Mount | Single | No Polarization | View |
| SATA-J-NP-SMT-P-S-PG-15-TR | Male | Right Angle Surface Mount | Single | No Polarization | View |
| SATA-J-NP-SMT-P-S-PG-TR | Male | Right Angle Surface Mount | Single | No Polarization | View |
| SATA-M-PM-SM | Female | Straddle Mount | Dual | Middle Polarization | View |

| PART NUMBER | GENDER | MOUNTING ORIENTATION | STYLE | POLARIZATION | PRODUCT DATA |
|---|---|---|---|---|---|
| SATA-M-PM-VT | Female | Vertical Thru Hole | Dual | Middle Polarization | View |
| SATA-N-PM-VT-02 | Female | Vertical Thru Hole | Dual | Middle Polarization | View |
| SATA-N-PM-VT-03-15 | Female | Vertical Thru Hole | Dual | Middle Polarization | View |
| SATA-N-PM-VT-04-15 | Female | Vertical Thru Hole | Dual | Middle Polarization | View |
| SATA-N-PM-VT-SMT-02 | Female | Vertical Surface Mount | Dual | Middle Polarization | View |
| SATA-P-PR-1-SMT | Male | Vertical Surface Mount | Single | Right Polarization | View |
| SATA-P-PR-1-SMT-15-KT-TR | Male | Vertical Surface Mount | Single | Right Polarization | View |
| SATA-P-PR-SMT | Male | Vertical Surface Mount | Single | Right Polarization | View |
| SATA-P-PR-SMT-15 | Male | Vertical Surface Mount | Single | Right Polarization | View |
| SATA-P-PR-SMT-G01 | Male | Vertical Surface Mount | Single | Right Polarization | View |
| SATA-P-PR-SMT-G03 | Male | Vertical Surface Mount | Single | Right Polarization | View |
| SATA-P-PR-SMT-KT-TR | Male | Vertical Surface Mount | Single | Right Polarization | View |
| SATA-P-PR-VT | Male | Vertical Thru Hole | Single | Right Polarization | View |
| SATA-Q-PM-SMT-30 | Male | Right Angle Surface Mount | Dual | Middle Polarization | View |
| SATA-Q-PM-SMT-R | Male | Right Angle Surface Mount | Dual | Middle Polarization | View |
| SATA-R-PM-SMT | Female | Vertical Surface Mount | Dual | Middle Polarization | View |
| SATA-R-PM-SMT-PP-TR | Female | Vertical Surface Mount | Dual | Middle Polarization | View |
| SATA-R-PM-VT | Female | Vertical Thru Hole | Dual | Middle Polarization | View |
| SATA-S-PM-SMT | Male | Right Angle Surface Mount | Dual | Middle Polarization | View |
| SATA-S1-PM-SMT-R-PP-HF-TR | Male | Right Angle Surface Mount | Dual | Middle Polarization | View |
| SATA-V-PM-RT | Female | Right Angle Surface Mount | Dual | Middle Polarization | View |
| SATA-W-NP-RA-X | Female | Right Angle Thru Hole | Single | No Polarization | View |
| SATA-W-NP-RU | Female | Right Angle Upright Thru Hole | Single | No Polarization | View |
| SATA-W-NP-VT-SMT | Female | | Single | No Polarization | View |
| SATA-Y-PR-SM | Male | Straddle Mount | Dual | Right Polarization | View |
| SATA-Z-PL-CM | Female | Solder Type | Single | Left Polarization | View |
| SATA-Z-PL-VT-PC-15 | Female | Vertical Thru Hole | Single | Left Polarization | View |

# Shrouded Headers

Adam Tech Shrouded Headers are a dual row shrouded header for use with dual row IDC female socket connectors. Our low profile, space saving design has a center slot for the socket's polarization bump. Adam Tech's Box Headers are available in Straight PCB Mount, Right Angle PCB Mount and SMT Mounting. Plating options include choice of Gold, Tin or Selective Gold. SMT versions are manufactured with a Hi-Temp insulator. Additional options include latches and custom pin lengths.



## FEATURES & SPECIFICATIONS

### FEATURES:
Elevated for Stacking applications
Low Profile design
Straight, Right Angle & SMT mounting options
Standard or customer specified Stacking Heights & PCB tail lengths

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

#### Material:
Insulator: PBT, glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black (Gray optional)
Contacts: Brass

#### Plating:
U = Gold over nickel underplate
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

#### Temperature Rating:
Operating temperature: -40°C to +105°C

# Shrouded Headers

.050" [1.27MM], DUAL ROW

## FEATURES & SPECIFICATIONS

### FEATURES:
Dual row
.050" [1.27mm] pitch
Positions: 10 to 100
Elevated for Stacking applications
Low Profile design
Straight, Right Angle & SMT mounting options
Standard or customer specified Stacking Heights & PCB tail lengths

### MATING SOCKETS:
Mates with all industry standard .050" [1.27mm] pitch dual row IDC sockets.

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Insulator: PBT, glass reinforeced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black (Gray optional)
Contacts: Brass

### Plating:
U = Gold over nickel underplate
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

### Electrical:
Operating voltage: 250V AC max.
Current rating: 1 Amp max
Contact resistance: 20 mΩmax. initial
Insulation resistance: 5000 MΩmin.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Mating durability: 500 cycles min.

### Temperature Rating:
Operating temperature: -40°C to +105°C

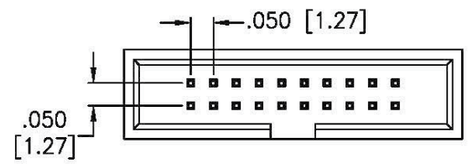
## PART NUMBER CONFIGURATION

**HBHR - 20 - V - SG - SMT**

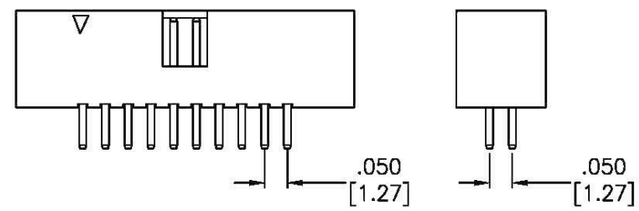
| SERIES | POSITIONS | MOUNTING ANGLE | CONTACT PLATING | OPTIONS: |
|---|---|---|---|---|
| **HBHR-B** = *Box header .050" x .050" H= .213 [5.40] , W= .201 [5.10]* **B2** = *H= .213 [5.40] , W= .197 [5.00]*<br><br>**HBHR-A** = *Box header .050" x .100" H= .217 [5.50] , W= .327 [8.30]* **A1** = *H= .228 [5.80] , W= .323 [8.20]* | **10, 20, 30, 40, 50, 60, 70, 80, 90, 100** | **V** = *Straight Mount* **H** = *Right Angle Mount* | **G** = *Gold plated* **SG** = *Gold plating in contact area, Tin plated solder tails* **T** = *Tin plated* | *Add designator(s) to end of part number* **SMT** = *Surface mount leads with Hi-Temp insulator* **HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)* **P** = *With Peg* **PP** = *With Cap* **T/R** = *Tape & Reel packaging* |

| PART NUMBER | CENTERLINE | POSITIONS | MOUNTING ORIENTATION | PLATING | PRODUCT DATA |
|---|---|---|---|---|---|
| HBHR-A-XX-VG | .050" x .100" | 08-64 | Vertical, Through Hole | Gold | View |
| HBHR-A1-XX-VG-HT | .050" x .100" | 08-64 | Vertical, Through Hole | Gold | View |
| HBHR-B-XX-HG | .050" x .050" | 08-64 | Right Angle, Through Hole | Gold | View |
| HBHR-B-XX-VG | .050" x .050" | 08-64 | Vertical, Through Hole | Gold | View |
| HBHR-B-XX-VSG | .050" x .050" | 08-64 | Vertical, Through Hole | Selective Gold | View |
| HBHR-B-XX-VT-SMT | .050" x .050" | 08-64 | Vertical, Surface Mount | Tin | View |
| HBHR-B2-XX-VG-SMT | .050" x .050" | 04-100 | Vertical, Surface Mount | Gold | View |

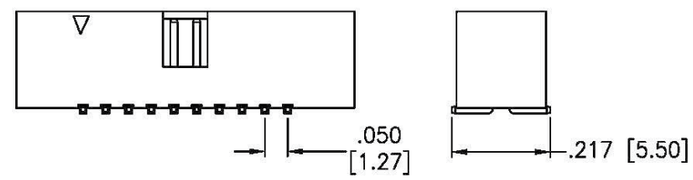
### HBHR-B



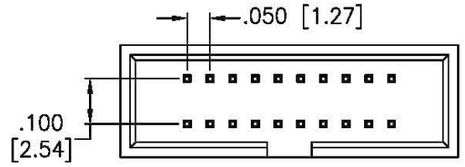

### HBHR-B (.050" X .050") VERTICAL THROUGH HOLE



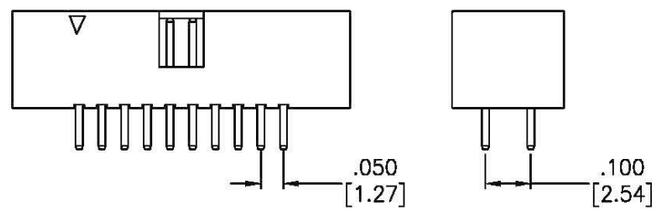

### HBHR-B (.050" X .050") VERTICAL SMT



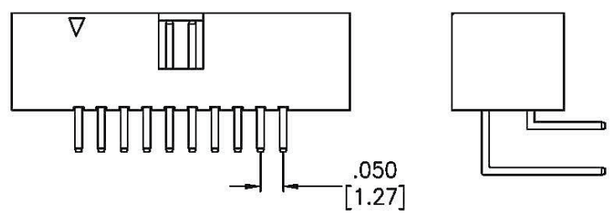

### HBHR-A



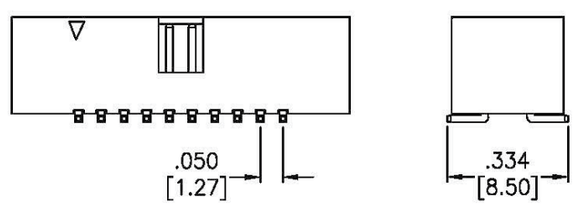

### HBHR-A (.050" X .100") VERTICAL THROUGH HOLE




### HBHR-A (.050" X .100") R/A THROUGH HOLE




### HBHR-A (.050" X .100") VERTICAL SMT



# Shrouded Headers
.079” [2.0MM], DUAL ROW

## FEATURES & SPECIFICATIONS

### FEATURES:
Dual row
.079” [2.0mm] pitch
Positions: 8 to 64
Elevated for Stacking applications
Low Profile design
Straight, Right Angle & SMT mounting options
Standard or customer specified Stacking
Heights & PCB tail lengths

### MATING SOCKETS:
Mates with all industry standard .079” [2.0mm] pitch dual row IDC sockets.

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

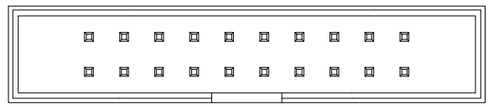
### Material:
Insulator: PBT, glass reinforeced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black (Gray optional)
Contacts: Brass

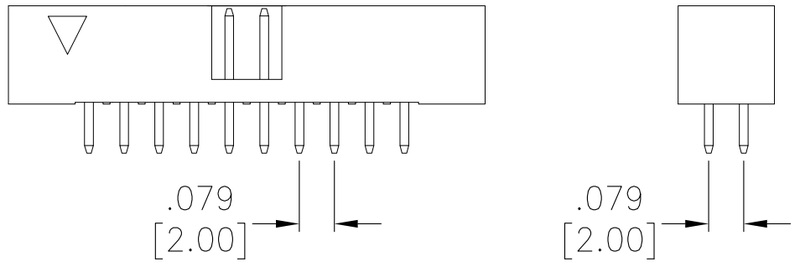
### Plating:
U = Gold over nickel underplate
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

### Electrical:
Operating voltage: 250V AC max.
Current rating: 1 Amp max
Contact resistance: 20 mΩmax. initial
Insulation resistance: 5000 MΩmin.
Dielectric withstanding voltage: 1000V AC for 1 minute

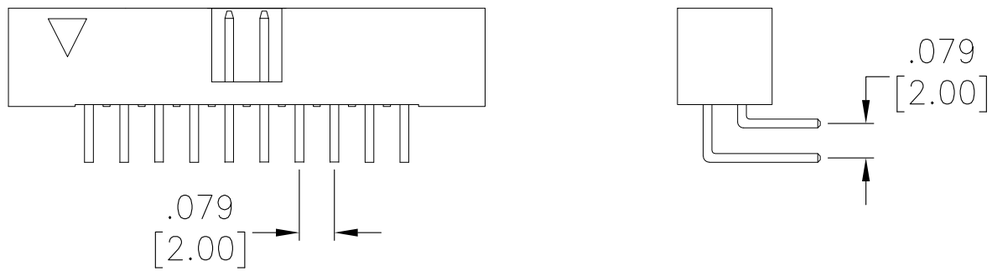
### Mechanical:
Mating durability: 500 cycles min.

### Temperature Rating:
Operating temperature: -40°C to +105°C

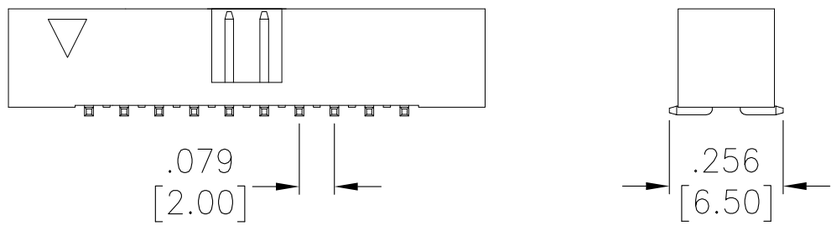





VERTICAL




RIGHT ANGLE




VERTICAL SMT

## PART NUMBER CONFIGURATION

| 2BHR | - 20 | - V | - U | - A | - SMT |
|---|---|---|---|---|---|
| **SERIES** | **POSITIONS** | **MOUNTING ANGLE** | **CONTACT PLATING** | **PIN LENGTHS** | **OPTIONS:** |
| **2BHR** = *2mm Box Header*<br>**2BHR-A** = *2mm Box Header W6.50*H6.05mm*<br>**2BHR-A (SS)** = *2mm Box Header W6.30*H6.40mm (window)*<br>**2BHR-A1 (SS)** = *2mm Box Header W6.30*H6.40mm*<br>**2BHR-A2 (SS)** = *2mm Box Header W6.30*H6.40mm (window center)*<br>**2BHR-A3** = *2mm Box Header W5.50*H5.75mm* | **08, 10, 14, 16, 20, 24, 26, 30, 34, 40, 44, 50, 60, 64** | **V** = *Straight Mount*<br>**H** = *Right Angle Mount* | **U** = *Gold plated*<br>**SG** = *Gold plating in contact area, Tin plated solder tails*<br>**T** = *Tin plated* | **A** = *Standard length solder tail*<br>**B** = *Special length, customer specified*<br>**.XXX**= *Customized Solder tail length*<br>**SMT** = *Surface Mount* | *Add designator(s) to end of part number*<br>**15** = *15 µin gold plating in contact area*<br>**30** = *30 µin gold plating in contact area*<br>**GY** = *Gray color insulator*<br>**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)*<br>**P** = *With Peg*<br>**PP** = *With Cap*<br>**T/R** = *Tape & Reel packaging*<br>**SS** = *Side Slots*<br>**BL** = *With BoardLocks* |

# Shrouded Headers

## .079” [2.0MM], DUAL ROW

| PART NUMBER | CENTERLINE | POSITIONS | MOUNTING ORIENTATION | PLATING | PRODUCT DATA |
|---|---|---|---|---|---|
| 2BHR-20-HSGA-USB3-X20 | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Selective Gold | View |
| 2BHR-20-VUA-USB3-X20 | .079" [2.00mm] | 08-64 | Vertical, Through Hole | Gold | View |
| 2BHR-34-VSG-SMT-PP-TR | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Gold | View |
| 2BHR-34-VSG-SMT-TR | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Selective Gold | View |
| 2BHR-34-VU-SMT-PP-TR | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Gold | View |
| 2BHR-34-VU-SMT-TR | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Gold | View |
| 2BHR-A-XX-VSGA-SS-SMT-15-P-PP-TR | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Selective Gold | View |
| 2BHR-A1-XX-VSGA-SS-SMT-15-P-PP-TR | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Selective Gold | View |
| 2BHR-A2-XX-HSGA-SS-15 | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Selective Gold | View |
| 2BHR-A2-XX-VSGA-SS-15 | .079" [2.00mm] | 08-64 | Vertical, Through Hole | Selective Gold | View |
| 2BHR-A2-XX-VUA-SS | .079" [2.00mm] | 08-64 | Vertical, Through Hole | Gold | View |
| 2BHR-A3-XX-VSGA-SMT | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Selective Gold | View |
| 2BHR-A3-XX-VUA-SMT | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Gold | View |
| 2BHR-A3-XX-VUA-SMT-PP | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Gold | View |
| 2BHR-XX-HSGA-HT | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Selective Gold | View |
| 2BHR-XX-HSGA-HT-10 | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Selective Gold | View |
| 2BHR-XX-HSGA-HT-15 | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Selective Gold | View |
| 2BHR-XX-HSGA-SS | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Selective Gold | View |
| 2BHR-XX-HSGA-SS-15 | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Selective Gold | View |
| 2BHR-XX-HSGA-SS-30 | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Selective Gold | View |
| 2BHR-XX-HSGB-094-HT | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Selective Gold | View |
| 2BHR-XX-HSGB-094-HT-15 | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Selective Gold | View |
| 2BHR-XX-HSGMA-SS | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Selective Gold | View |
| 2BHR-XX-HSGMA-SS-30 | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Selective Gold | View |
| 2BHR-XX-HTA | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Tin | View |
| 2BHR-XX-HUA | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Gold | View |
| 2BHR-XX-HUA-30 | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Gold | View |
| 2BHR-XX-HUA-HT | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Gold | View |
| 2BHR-XX-HUA-HT-15 | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Gold | View |
| 2BHR-XX-HUA-HT-30 | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Gold | View |
| 2BHR-XX-HUA-SS | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Gold | View |
| 2BHR-XX-HUA-SS-15 | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Gold | View |
| 2BHR-XX-HUA-SS-30 | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Gold | View |
| 2BHR-XX-HUA-SS-TR | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Gold | View |
| 2BHR-XX-HUB-094-HT-15 | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Gold | View |
| 2BHR-XX-HUB-094-HT-30 | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Gold | View |
| 2BHR-XX-HUB-104-HT-30 | .079" [2.00mm] | 08-64 | Right Angle, Through Hole | Gold | View |
| 2BHR-XX-VSG-SMT | .079" [2.00mm] | 06-68 | Vertical, Surface Mount | Selective Gold | View |
| 2BHR-XX-VSG-SMT-PP-PT | .079" [2.00mm] | 06-68 | Vertical, Surface Mount | Selective Gold | View |
| 2BHR-XX-VSG-SMT-PP-TR | .079" [2.00mm] | 06-68 | Vertical, Surface Mount | Selective Gold | View |
| 2BHR-XX-VSGA | .079" [2.00mm] | 08-64 | Vertical, Through Hole | Selective Gold | View |
| 2BHR-XX-VSGA-15 | .079" [2.00mm] | 08-64 | Vertical, Through Hole | Selective Gold | View |
| 2BHR-XX-VSGA-HT | .079" [2.00mm] | 08-64 | Vertical, Through Hole | Selective Gold | View |

| PART NUMBER | CENTERLINE | POSITIONS | MOUNTING ORIENTATION | PLATING | PRODUCT DATA |
|---|---|---|---|---|---|
| 2BHR-XX-VSGA-PE | .079" [2.00mm] | 08-64 | Vertical, Through Hole | Selective Gold | View |
| 2BHR-XX-VSGA-SMT | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Selective Gold | View |
| 2BHR-XX-VSGA-SMT-15-PP-TR | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Selective Gold | View |
| 2BHR-XX-VSGA-SMT-30 | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Selective Gold | View |
| 2BHR-XX-VSGA-SS-15 | .079" [2.00mm] | 08-64 | Vertical, Through Hole | Selective Gold | View |
| 2BHR-XX-VSGA-SS-30 | .079" [2.00mm] | 08-64 | Vertical, Through Hole | Selective Gold | View |
| 2BHR-XX-VSGA-SS-SMT | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Selective Gold | View |
| 2BHR-XX-VSGA-SS-SMT-15-PP-TR | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Selective Gold | View |
| 2BHR-XX-VSGA-SS-SMT-P-PP-TR | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Selective Gold | View |
| 2BHR-XX-VSGA-SS-SMT-P-T151 | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Selective Gold | View |
| 2BHR-XX-VTA | .079" [2.00mm] | 08-64 | Vertical, Through Hole | Tin | View |
| 2BHR-XX-VTA-PE | .079" [2.00mm] | 08-64 | Vertical, Through Hole | Tin | View |
| 2BHR-XX-VTA-SMT | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Tin | View |
| 2BHR-XX-VU-SMT | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Gold | View |
| 2BHR-XX-VU-SMT-30 | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Gold | View |
| 2BHR-XX-VU-SMT-BL | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Gold | View |
| 2BHR-XX-VUA | .079" [2.00mm] | 08-64 | Vertical, Through Hole | Gold | View |
| 2BHR-XX-VUA-HT | .079" [2.00mm] | 08-64 | Vertical, Through Hole | Gold | View |
| 2BHR-XX-VUA-HT-20 | .079" [2.00mm] | 08-64 | Vertical, Through Hole | Gold | View |
| 2BHR-XX-VUA-HT-30 | .079" [2.00mm] | 08-64 | Vertical, Through Hole | Gold | View |
| 2BHR-XX-VUA-PE | .079" [2.00mm] | 08-64 | Vertical, Through Hole | Gold | View |
| 2BHR-XX-VUA-PP-TR | .079" [2.00mm] | 08-64 | Vertical, Through Hole | Gold | View |
| 2BHR-XX-VUA-SMT | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Gold | View |
| 2BHR-XX-VUA-SMT-20 | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Gold | View |
| 2BHR-XX-VUA-SMT-20-TR | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Gold | View |
| 2BHR-XX-VUA-SMT-PP-TR | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Gold | View |
| 2BHR-XX-VUA-SS | .079" [2.00mm] | 08-64 | Vertical, Through Hole | Gold | View |
| 2BHR-XX-VUA-SS-15 | .079" [2.00mm] | 08-64 | Vertical, Through Hole | Gold | View |
| 2BHR-XX-VUA-SS-SMT-15-P-PP | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Gold | View |
| 2BHR-XX-VUA-SS-SMT-P | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Gold | View |
| 2BHR-XX-VUA-SS-SMT-P-PP | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Gold | View |
| 2BHR-XX-VUA-SS-SMT-P-PP-TR | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Gold | View |
| 2BHR-XX-VUA-SS-SMT-P-TR | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Gold | View |
| 2BHR-XX-VUB-138-HT | .079" [2.00mm] | 08-64 | Vertical, Through Hole | Gold | View |
| 2BHR-XX-VUB-165 | .079" [2.00mm] | 08-64 | Vertical, Through Hole | Gold | View |
| 2BHRE-XX-VSG-390-118 | .079" [2.00mm] | 06-68 | Vertical, Through Hole | Selective Gold | View |
| 2BHRE-XX-VU-335-110 | .079" [2.00mm] | 06-68 | Vertical, Through Hole | Gold | View |
| 2BHRE-XX-VU-605-225-20 | .079" [2.00mm] | 06-68 | Vertical, Through Hole | Gold | View |
| 2BHRE-XX-VU-748-130 | .079" [2.00mm] | 06-68 | Vertical, Through Hole | Gold | View |
| 2BHRE-XX-VU-766-085 | .079" [2.00mm] | 06-68 | Vertical, Through Hole | Gold | View |
| 2BHRS-XX-VSG-SMT-PP-TR | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Selective Gold | View |
| 2BHRS-XX-VU-SMT | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Gold | View |
| 2BHRS-XX-VU-SMT-PP | .079" [2.00mm] | 08-64 | Vertical, Surface Mount | Gold | View |

# Shrouded Headers

.100" [2.54MM], DUAL ROW

## FEATURES & SPECIFICATIONS

### FEATURES:
Dual row
.100" [2.54mm] pitch
Positions: 8 to 64
Elevated for Stacking applications
Low Profile design
Straight, Right Angle & SMT mounting options
Standard or customer specified Stacking Heights & PCB tail lengths

### MATING SOCKETS:
Adam Tech .100" X .100" dual row IDC sockets

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Insulator: PBT, glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black (Gray optional)
Contacts: Brass

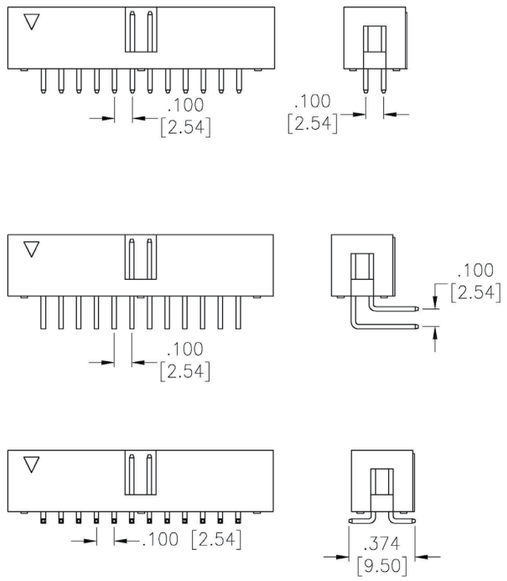
### Plating:
U = Gold over nickel underplate
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

### Electrical:
Operating voltage: 250V AC max.
Current rating: 3 Amps max
Contact resistance: 20 mΩmax. initial
Insulation resistance: 5000 MΩmin.
Dielectric withstanding voltage: 1000V AC for 1 minute

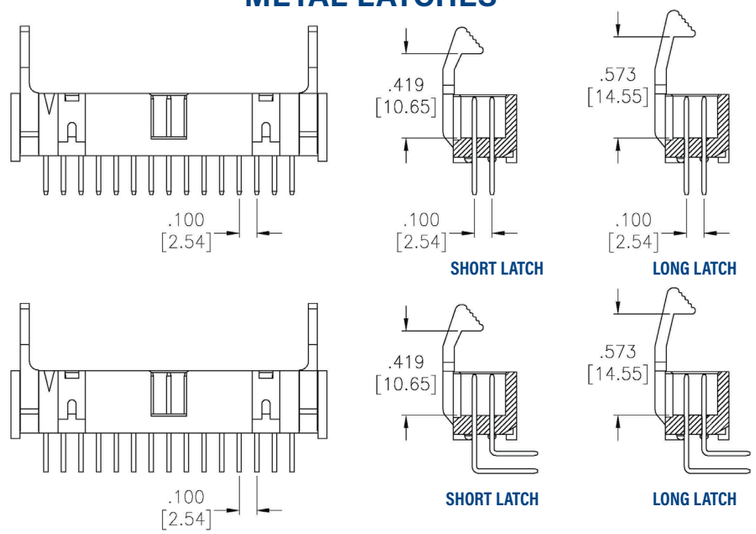
### Mechanical:
Mating durability: 500 cycles min.

### Temperature Rating:
Operating temperature: -40°C to +105°C

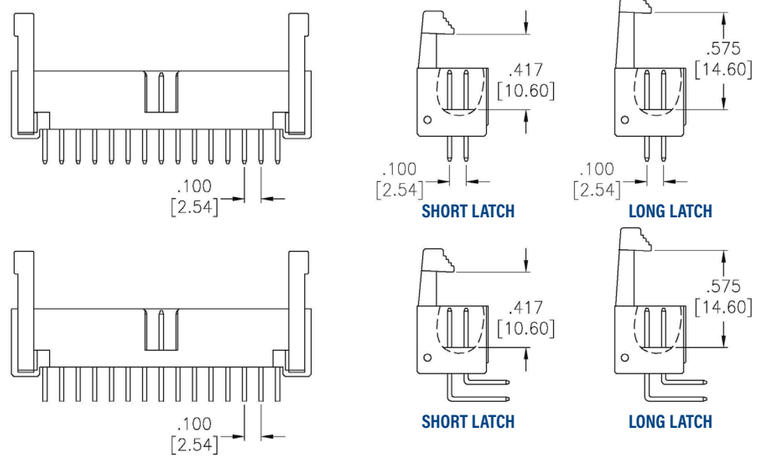
### NO LATCHES




### METAL LATCHES




### PLASTIC LATCHES




## PART NUMBER CONFIGURATION

**BHR - 50 - V - U - A - LL**

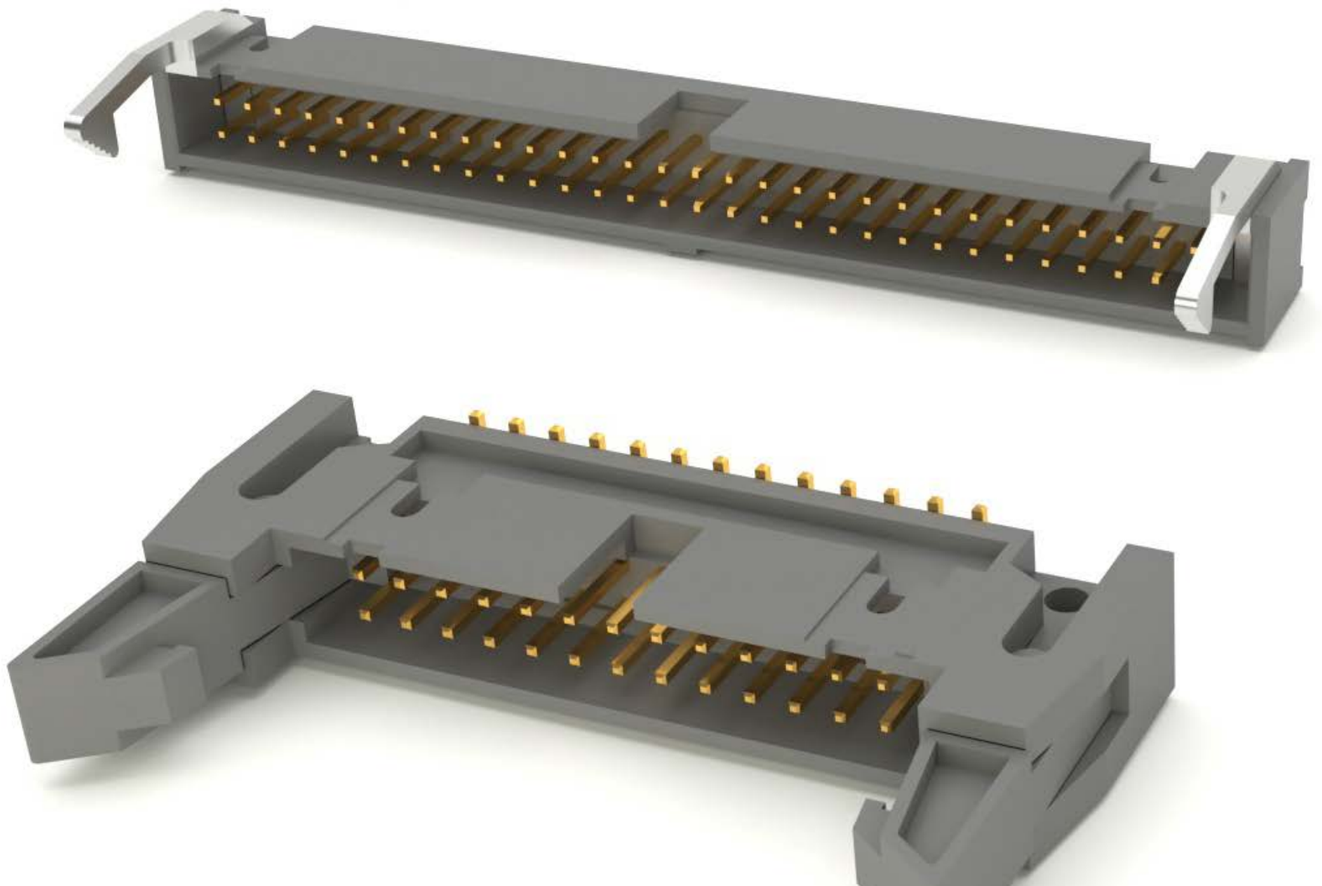
| SERIES | POSITIONS | MOUNTING ANGLE | CONTACT PLATING | PIN LENGTHS | OPTIONS: |
|---|---|---|---|---|---|
| **BHR** = *.100" Box Header* | **08, 10, 14, 16, 20, 24, 26, 30, 34, 40, 44, 50, 60, 64** | **V** = *Straight Mount*<br>**H** = *Right Angle Mount* | **U** = *Gold plated*<br>**SG** = *Gold plating in contact area, Tin plated solder tails*<br>**T** = *Tin plated* | **A** = *Standard length solder tail*<br>**B** = *Special length, customer specified*<br>**SMT** = *Surface Mount* | *Add designator(s) to end of part number*<br>**LL** = *Plastic long latches*<br>**SL** = *Plastic short latches*<br>**15** = *15 µin gold plating in contact area*<br>**30** = *30 µin gold plating in contact area*<br>**GY** = *Gray color insulator*<br>**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)*<br>**P** = *Peg*<br>**PP** = *Pick & Place Cap*<br>**T/R** = *Tape & Reel packaging*<br>**ML** = *Metal long latches*<br>**MS** = *Metal short latches*<br>**K** = *Kink pins*<br>**BL** = *With BoardLocks* |

| PART NUMBER | CENTERLINE | POSITIONS | MOUNTING ORIENTATION | PLATING | PRODUCT DATA |
|---|---|---|---|---|---|
| BHR-XX-HSGA | .100" [2.54mm] | 08-64 | Right Angle, Through Hole | Selective Gold | View |
| BHR-XX-HTA | .100" [2.54mm] | 08-64 | Right Angle, Through Hole | Tin | View |
| BHR-XX-HUA | .100" [2.54mm] | 08-64 | Right Angle, Through Hole | Gold | View |
| BHR-XX-HUA-ML | .100" [2.54mm] | 08-64 | Vertical, Through Hole | Gold | View |

| PART NUMBER | CENTERLINE | POSITIONS | MOUNTING ORIENTATION | PLATING | PRODUCT DATA |
|---|---|---|---|---|---|
| BHR-XX-VSG-SMT | .100" [2.54mm] | 08-64 | Vertical, Surface Mount | Selective Gold | View |
| BHR-XX-VSGA | .100" [2.54mm] | 08-64 | Vertical, Through Hole | Selective Gold | View |
| BHR-XX-VSGA-SMT | .100" [2.54mm] | 08-64 | Vertical, Surface Mount | Selective Gold | View |
| BHR-XX-VTA | .100" [2.54mm] | 08-64 | Vertical, Through Hole | Tin | View |
| BHR-XX-VTA-SMT | .100" [2.54mm] | 08-64 | Vertical, Surface Mount | Tin | View |
| BHR-XX-VUA | .100" [2.54mm] | 08-64 | Vertical, Through Hole | Gold | View |
| BHR-XX-VUA-SMT | .100" [2.54mm] | 08-64 | Vertical, Surface Mount | Gold | View |

# Latching Headers

Adam Tech Shrouded and Latching Headers are a dual row shrouded header for use with dual row IDC female socket connectors. Our low profile, space saving design has a center slot for the socket's polarization bump. Adam Tech's Box Headers are available in Straight PCB Mount, Right Angle PCB Mount and SMT Mounting. Plating options include choice of Gold, Tin or Selective Gold. SMT versions are manufactured with a Hi-Temp insulator. Additional options include latches and custom pin lengths.



## FEATURES & SPECIFICATIONS

### FEATURES:
Integral Latches provide Shock and Vibration Proof connection
Slot for IDC socket Polarization bump
Straight PCB, Right Angle PCB and SMT versions
Gold, Tin or Selective Gold plating
Elevated option available
Hi-Temp insulator available

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

#### Material:
Insulator: PBT, glass reinforeced, rated UL94V-0
Insulator Color: Black (Gray optional)
Contacts: Brass

#### Plating:
U = Gold over nickel underplate overall
SG = Gold over nickel on contact area,
Tin over copper underplate on tails.
T = Tin over copper underplate overall

#### Temperature Rating:
Operating temperature: -40°C to +105°C

# Latching Headers
.050" [1.27MM], DUAL ROW

## FEATURES & SPECIFICATIONS

### FEATURES:
Dual row
.050" [1.27mm] pitch
Positions: 10 to 100
Integral Latches provide Shock and Vibration Proof connection
Slot for IDC socket Polarization bump
Straight PCB, Right Angle PCB and SMT versions
Gold, Tin or Selective Gold plating
Elevated option available
Hi-Temp insulator available

### MATING SOCKETS:
Mates with HFCS series and all industry standard .050" [1.27mm] pitch dual row IDC sockets.

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Insulator: PBT, glass reinforeced, rated UL94V-0
Insulator Color: Black (Gray optional)
Contacts: Brass

### Plating:
U = Gold over nickel underplate overall
SG = Gold over nickel on contact area,
Tin over copper underplate on tails.
T = Tin over copper underplate overall

### Electrical:
Operating voltage: 250V AC max.
Current rating: 3 Amps max
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Mating durability: 500 Cycles min.

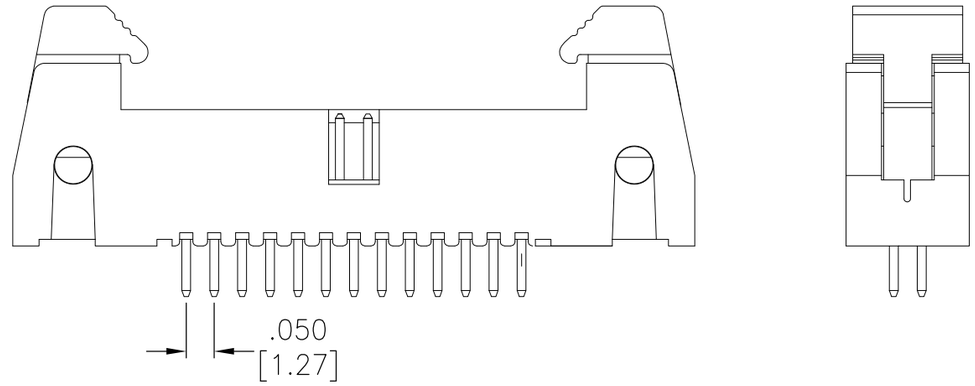
### Temperature Rating:
Operating temperature: -40°C to +105°C

## PART NUMBER CONFIGURATION

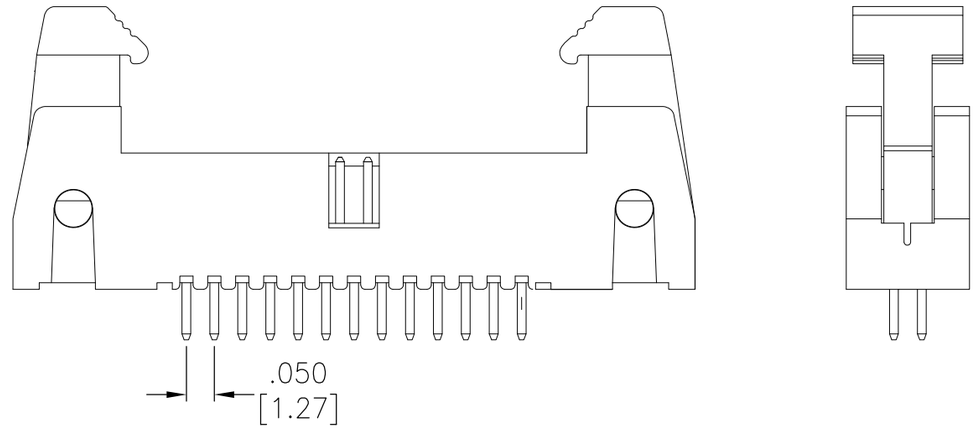
**HMHR - 26 - V - U - A - L - SMT**

| SERIES | POSITIONS | MOUNTING ANGLE | CONTACT PLATING | PIN LENGTHS | LATCHING FEATURES | OPTIONS: |
|---|---|---|---|---|---|---|
| **HMHR** = *.050" x .100" 2 row / 2 row*<br>**HMHR-A** = *.050" x .100"*<br>**HMHR-B** = *.050" x .050" 2 row / 4 row* | **10, 16, 20, 26, 30, 32, 34, 40, 44, 50, 52, 60, 64, 68, 70, 80, 100** | **V** = *Straight Mount*<br>**H** = *Right Angle Mount* | **U** = *Gold plated*<br>**SG** = *Gold plating in contact area, Tin plated solder tails*<br>**T** = *Tin plated* | **A** = *Standard length solder tail*<br>**B** = *Special length, customer specified* | **S** = *Short latches (for sockets w/o strain relief)*<br>**L** = *Long latches (for sockets w/ strain relief)*<br>**N** = *No latches* | *Add designator(s) to end of part number*<br>**SMT** = *Surface mount leads Dual row with Hi-Temp insulator*<br>**HT** = *High-temp insulator for high-temp soldering processes*<br>**OBL** = *With Offset Board Locks*<br>**PP** = *With Cap*<br>**T/R** = *Tape & Reel packaging* |

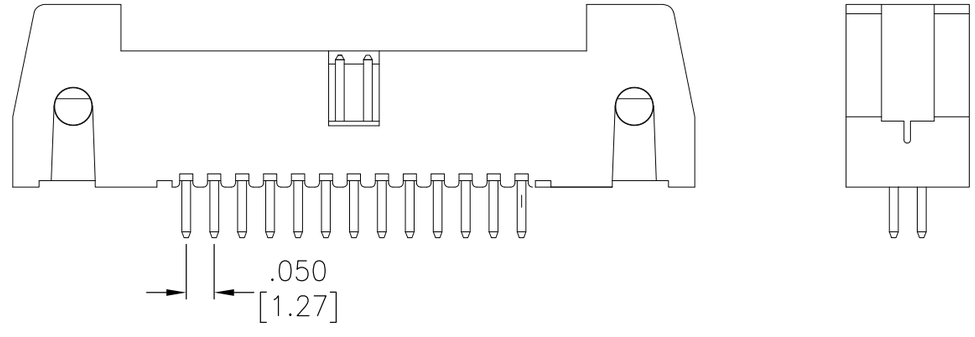
### HMHR SHORT LATCHES




### HMHR LONG LATCHES




### HMHR NO LATCHES




| PART NUMBER | CENTERLINE | POSITIONS | MOUNTING ORIENTATION | LATCH STYLE | PLATING | PRODUCT DATA |
|---|---|---|---|---|---|---|
| HMHR-A-XX-VUAS | .050" [1.27mm] | 10-68 | Vertical, Through Hole | Short Ejector Latches - For Sockets without Strain Relief | Gold | View |
| HMHR-XX-HUAS-W | .050" [1.27mm] | 10-100 | Right Angle, Through Hole | Short Ejector Latches - For Sockets without Strain Relief | Gold | View |

# Latching Headers
.079" [2.0MM], DUAL ROW

## FEATURES & SPECIFICATIONS

### FEATURES:
Dual row
.079" [2.0mm] pitch
Positions: 10 to 68
Integral Latches provide Shock and Vibration Proof connection
Slot for IDC socket Polarization bump
Straight PCB, Right Angle PCB and SMT versions
Gold, Tin or Selective Gold plating
Elevated option available
Hi-Temp insulator available

### MATING SOCKETS:
Mates with 2FCS series and all industry standard .079" [2.0mm] pitch dual row IDC sockets.

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

#### Material:
Insulator: PBT, glass reinforeced, rated UL94V-0
Insulator Color: Black (Gray optional)
Contacts: Brass

#### Plating:
U = Gold over nickel underplate overall
SG = Gold over nickel on contact area,
Tin over copper underplate on tails.
T = Tin over copper underplate overall

#### Electrical:
Operating voltage: 250V AC max.
Current rating: 3 Amps max
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:
Mating durability: 500 Cycles min.

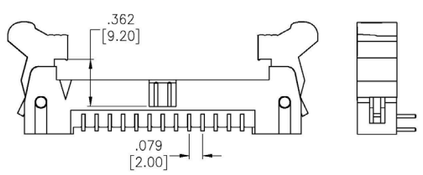
#### Temperature Rating:
Operating temperature: -40°C to +105°C

## PART NUMBER CONFIGURATION

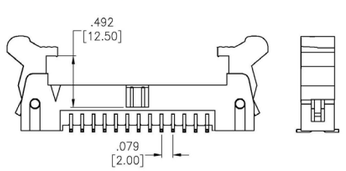
**2MHR - 44 - V - U - A - L - SMT**

| SERIES | POSITIONS | MOUNTING ANGLE | CONTACT PLATING | PIN LENGTHS | LATCHING FEATURES | OPTIONS: |
|---|---|---|---|---|---|---|
| **2MHR** = *2mm Shrouded Header W/Latches*<br>**2MHR-A** = *2mm Shrouded Header W/Latches W7.62*H9.40mm (wcon) S (L=12.16mm)*<br>**2MHR-B** = *2mm Shrouded Header W/Latches W6.10*H8.10mm (wcon) S (L=17.00mm) L (L=20.85mm)* | **10, 12, 14, 16, 20, 22, 24, 26, 30, 32, 34, 40, 44, 48, 50, 60, 64, 68** | **V** = *Straight Mount*<br>**H** = *Right Angle Mount* | **U** = *Gold plated*<br>**SG** = *Gold plating in contact area, Tin plated solder tails*<br>**T** = *Tin plated* | **A** = *Standard length solder tail*<br>**B** = *Special length, customer specified* | **S** = *Short latches (for sockets w/o strain relief)*<br>**L** = *Long latches (for sockets w/ strain relief)*<br>**N** = *No latches* | *Add designator(s) to end of part number*<br>**HT** = *High-temp insulator for high-temp soldering processes*<br>**PP** = *With Cap*<br>**SMT** = *Surface Mount Type*<br>**P** = *With Peg*<br>**T/R** = *Tape & Reel packaging* |

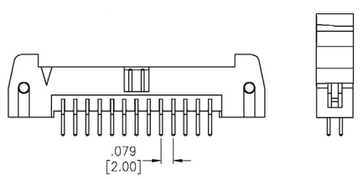
### RIGHT ANGLE, THROUGH HOLE




### VERTICAL, SURFACE MOUNT




### VERTICAL, THROUGH HOLE




| PART NUMBER | CENTERLINE | POSITIONS | MOUNTING ORIENTATION | LATCH STYLE | PLATING | PRODUCT DATA |
|---|---|---|---|---|---|---|
| 2MHR-10-VSGAS-SMT-TR | .079" [2.00mm] | 10 | Vertical, Surface Mount | Short Ejector Latches - For Sockets without Strain Relief | Selective Gold | View |
| 2MHR-A-XX-VSGAS-15-HT | .079" [2.00mm] | 06-64 | Vertical, Through Hole | Short Ejector Latches - For Sockets without Strain Relief | Selective Gold | View |
| 2MHR-A-XX-VSGAS-HT | .079" [2.00mm] | 06-64 | Vertical, Through Hole | Short Ejector Latches - For Sockets without Strain Relief | Selective Gold | View |
| 2MHR-A-XX-VSGAS-SMT-15 | .079" [2.00mm] | 06-64 | Vertical, Surface Mount | Short Ejector Latches - For Sockets without Strain Relief | Selective Gold | View |
| 2MHR-A-XX-VUAS-HT | .079" [2.00mm] | 06-64 | Vertical, Through Hole | Short Ejector Latches - For Sockets without Strain Relief | Gold | View |
| 2MHR-A-XX-VUAS-SMT-PP-TR | .079" [2.00mm] | 06-64 | Vertical, Surface Mount | Short Ejector Latches - For Sockets without Strain Relief | Gold | View |
| 2MHR-B-XX-VUAX-HT | .079" [2.00mm] | 06-64 | Vertical, Through Hole | Customized Latches | Gold | View |
| 2MHR-B-XX-VUAX-SMT-PP-TR | .079" [2.00mm] | 06-64 | Vertical, Surface Mount | Customized Latches | Gold | View |
| 2MHR-XX-HUA-LS-HT | .079" [2.00mm] | 10-68 | Right Angle, Through Hole | Standard Latches | Gold | View |
| 2MHR-XX-HUA-S | .079" [2.00mm] | 10-68 | Right Angle, Through Hole | Standard Latches | Gold | View |
| 2MHR-XX-HUAL-HT | .079" [2.00mm] | 10-68 | Right Angle, Through Hole | Long Ejector Latches - For Sockets with Strain Relief | Gold | View |
| 2MHR-XX-HUAS-HT | .079" [2.00mm] | 10-68 | Right Angle, Through Hole | Short Ejector Latches - For Sockets without Strain Relief | Gold | View |
| 2MHR-XX-VSGA-X | .079" [2.00mm] | 10-68 | Vertical, Through Hole | Standard Latches | Selective Gold | View |
| 2MHR-XX-VSGAS-HT | .079" [2.00mm] | 10-68 | Vertical, Through Hole | Short Ejector Latches - For Sockets without Strain Relief | Selective Gold | View |
| 2MHR-XX-VSGAS-SMT | .079" [2.00mm] | 10-68 | Vertical, Surface Mount | Short Ejector Latches - For Sockets without Strain Relief | Selective Gold | View |
| 2MHR-XX-VTAS-HT | .079" [2.00mm] | 10-68 | Vertical, Through Hole | Short Ejector Latches - For Sockets without Strain Relief | Tin | View |
| 2MHR-XX-VUA-LS-HT | .079" [2.00mm] | 10-68 | Vertical, Through Hole | Standard Latches | Gold | View |
| 2MHR-XX-VUA-S | .079" [2.00mm] | 10-68 | Vertical, Through Hole | Standard Latches | Gold | View |
| 2MHR-XX-VUA-S-SMT | .079" [2.00mm] | 10-68 | Vertical, Surface Mount | Standard Latches | Gold | View |
| 2MHR-XX-VUA-S-SMT-PP | .079" [2.00mm] | 10-68 | Vertical, Surface Mount | Standard Latches | Gold | View |
| 2MHR-XX-VUAL-HT | .079" [2.00mm] | 10-68 | Vertical, Through Hole | Long Ejector Latches - For Sockets with Strain Relief | Gold | View |
| 2MHR-XX-VUAL-SMT | .079" [2.00mm] | 10-68 | Vertical, Surface Mount | Long Ejector Latches - For Sockets with Strain Relief | Gold | View |
| 2MHR-XX-VUAL-SMT-P-30 | .079" [2.00mm] | 10-68 | Vertical, Surface Mount | Long Ejector Latches - For Sockets with Strain Relief | Gold | View |
| 2MHR-XX-VUAN-SMT-30-PP-TR | .079" [2.00mm] | 10-68 | Vertical, Surface Mount | No Latches | Gold | View |
| 2MHR-XX-VUAN-SMT-PP-TR | .079" [2.00mm] | 10-68 | Vertical, Surface Mount | No Latches | Gold | View |
| 2MHR-XX-VUAS | .079" [2.00mm] | 10-68 | Vertical, Through Hole | Short Ejector Latches - For Sockets without Strain Relief | Gold | View |
| 2MHR-XX-VUAS-HT | .079" [2.00mm] | 10-68 | Vertical, Through Hole | Short Ejector Latches - For Sockets without Strain Relief | Gold | View |
| 2MHR-XX-VUAS-SMT | .079" [2.00mm] | 10-68 | Vertical, Surface Mount | Short Ejector Latches - For Sockets without Strain Relief | Gold | View |

# Latching Headers

.100" [2.54MM], DUAL ROW

## FEATURES & SPECIFICATIONS

### FEATURES:

Dual row
.100" [2.54mm] pitch
Positions: 10 to 64
Integral Latches provide Shock and Vibration Proof connection
Slot for IDC socket Polarization bump
Straight PCB, Right Angle PCB and SMT versions
Gold, Tin or Selective Gold plating
Elevated option available
Hi-Temp insulator available

### MATING SOCKETS:

Mates with FCS series and all industry standard .100" [2.54mm] pitch dual row IDC sockets.

### PACKAGING:

Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

### Plating:

U = Gold over nickel underplate overall
SG = Gold over nickel on contact area, Tin over copper underplate on tails.
T = Tin over copper underplate overall

### Electrical:

Operating voltage: 250V AC max.
Current rating: 3 Amps max
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

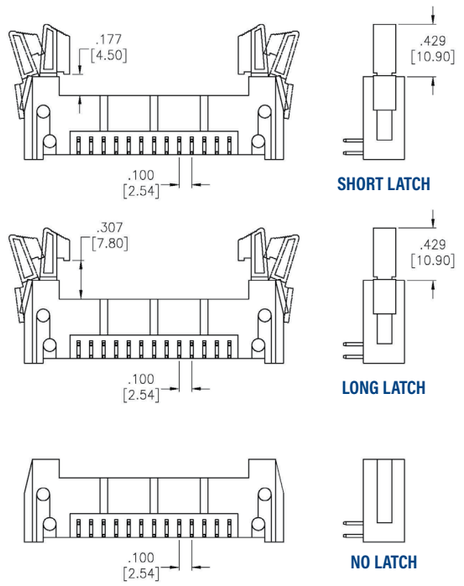
### Mechanical:

Mating durability: 500 Cycles min.

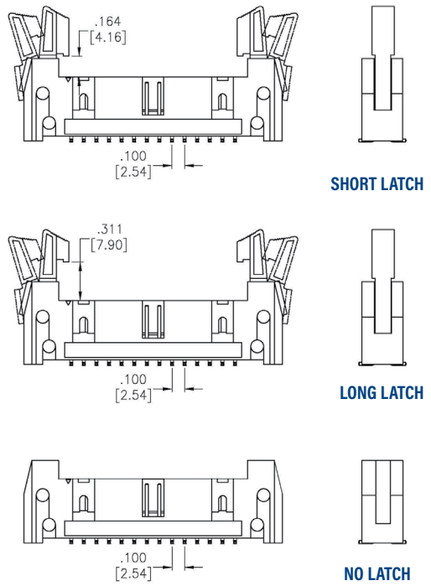
### Temperature Rating:

Operating temperature: -40°C to +105°C

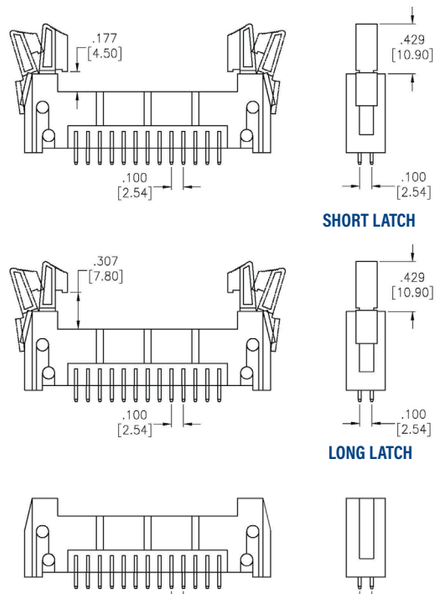
### RIGHT ANGLE, THROUGH HOLE




### VERTICAL, SURFACE MOUNT




### VERTICAL, THROUGH HOLE




## SPECIFICATIONS:

### Material:

Insulator: PBT, glass reinforeced, rated UL94V-0
Insulator Color: Black (Gray optional)
Contacts: Brass

## PART NUMBER CONFIGURATION

**MHR- 50 - V - U - A - L - SMT**

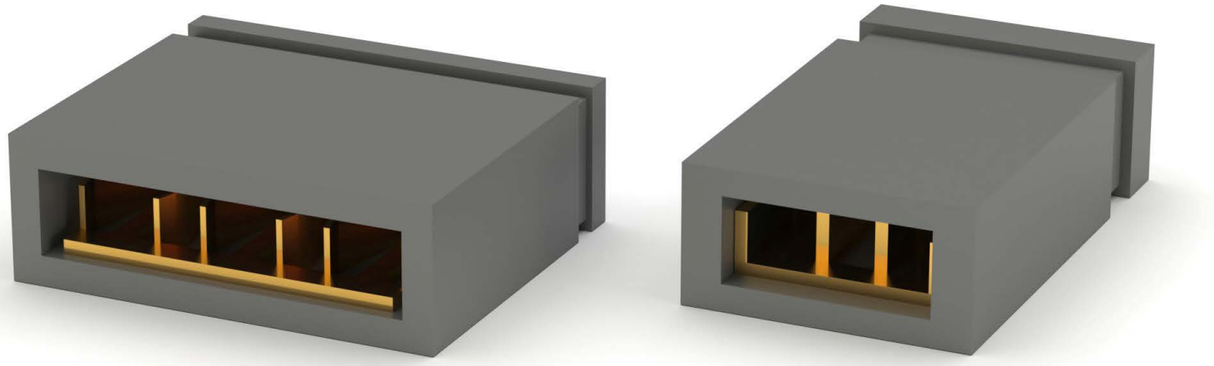
| SERIES | POSITIONS | MOUNTING ANGLE | CONTACT PLATING | PIN LENGTHS | LATCHING FEATURES | OPTIONS: |
|---|---|---|---|---|---|---|
| **MHR** *= .100" Shrouded Header with Latches* | **10, 14, 16, 20, 24, 26, 30, 34, 40, 50, 60, 64** | **V** = *Straight Mount*<br>**H** = *Right Angle Mount* | **U** = *Gold plated*<br>**SG** = *Gold plating in contact area, Tin plated solder tails*<br>**T** = *Tin plated* | **A** = *Standard length solder tail*<br>**B** = *Special length, customer specified* | **S** = *Short latches (for sockets w/o strain relief)*<br>**L** = *Long latches (for sockets w/ strain relief)*<br>**N** = *No latches* | *Add designator(s) to end of part number*<br>**GY** = *Gray color insulator*<br>**HT** = *High-temp insulator for high-temp soldering processes*<br>**SMT** = *Surface Mount*<br>**.XXX** = *Mating Length*<br>**MP** = *Multiple Polarization*<br>**PP** = *Pick & Place Cap* |

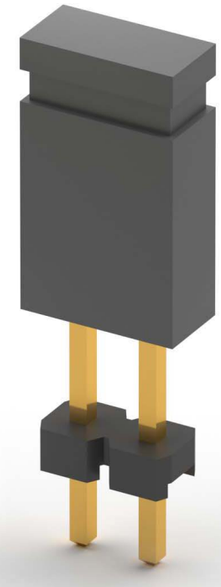
| PART NUMBER | CENTERLINE | POSITIONS | MOUNTING ORIENTATION | LATCH STYLE | PLATING | PRODUCT DATA |
|---|---|---|---|---|---|---|
| MHR-A-XX-VUAL-MP | .100" [2.54mm] | 06-64 | Vertical, Through Hole | Long Ejector Latches - For Sockets with Strain Relief | Gold | View |
| MHR-XX-HSGAS-Y | .100" [2.54mm] | 10-64 | Right Angle, Through Hole | Short Ejector Latches - For Sockets without Strain Relief | Selective Gold | View |
| MHR-XX-HUAL | .100" [2.54mm] | 10-64 | Right Angle, Through Hole | Long Ejector Latches - For Sockets with Strain Relief | Gold | View |
| MHR-XX-HUAS | .100" [2.54mm] | 10-64 | Right Angle, Through Hole | Short Ejector Latches - For Sockets without Strain Relief | Gold | View |
| MHR-XX-VUAL | .100" [2.54mm] | 10-64 | Vertical, Through Hole | Long Ejector Latches - For Sockets with Strain Relief | Gold | View |
| MHR-XX-VUAL-SMT | .100" [2.54mm] | 10-64 | Vertical, Surface Mount | Long Ejector Latches - For Sockets with Strain Relief | Gold | View |
| MHR-XX-VUAS | .100" [2.54mm] | 10-64 | Vertical, Through Hole | Short Ejector Latches - For Sockets without Strain Relief | Gold | View |
| MHR-XX-VUAS-SMT | .100" [2.54mm] | 10-64 | Vertical, Surface Mount | Short Ejector Latches - For Sockets without Strain Relief | Gold | View |

# Shunts

## .050”, 2MM, .100” & .200” CENTERLINE

Mini Shunts are available in .050”, 2.00mm, .100” and .200” centerlines. They quickly and easily jump individual pins on pin headers to perform manual programming on PCB’s. This series offers a broad range of sizes, shapes and colors. Shunts are designed with detents at top for easy fingertip installation removal. Options include integrated pull tabs and gang types which are molded in one piece. This series is extremely low cost and is a highly economical, cost effective solution for replacing PCB switches. They are available in Gold or Tin plating.





## FEATURES & SPECIFICATIONS

### FEATURES:
Electrically connects two or more pin header posts
Wide variety of bodies and styles to choose from
Superior insulator design provides easy Fingertip extraction
Pull Tab and Ganged options available
Choice of Gold or Tin-plated contact area
Side and end stackable

### MATING OPTIONS:
Mates with all industry standard .050”, .079” and .100” centerline pin headers with a .016”, .020” or .025” square post.

### PACKAGING:
Anti-ESD plastic bags

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Insulator: PBT, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

### Contact Plating:
G = Gold over nickel underplate overall
T = Tin over copper underplate overall

### Electrical:
Operating voltage: 250V AC max.
Current rating: 1~3 Amps
Contact resistance: 30 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Insertion force: 1.57 lbs max.
Withdrawal force: .65 lbs min
Mating durability: 50 Cycles Gold
20 Cycles Tin

### Temperature Rating:
Operating temperature: -40°C to +105°C

## PART NUMBER CONFIGURATION

**HMSA - G - R**

| SERIES/PITCH/BODY STYLE/HEIGHT | PLATING | OPTIONS |
|---|---|---|
| **HMSA** = *.050” Mini Shunt (1 x 2) Handle-top* | **G** = *Gold plated* | *STANDARD INSULATOR COLOR IS BLACK* |
| **HMSB** = *.050” Mini Shunt (2 x 2) Handle-top* | **T** = *Tin plated* | *Other insulator colors available* |
| **HMSC** = *.050” Mini Shunt, .118”* | | *Add designator(s) to end of part number* |
| **MS2A** = *.079” Mini Shunt, Open top, .177”* | | **R** = *Red ** |
| **MS2B** = *.079” Mini Shunt, Open top, .138”* | | **B** = *Blue ** |
| **MS2BG** = *.079” Mini Shunt, Open top, Ganged, .169”* | | **W** = *White ** |
| **MS2C** = *.079” Mini Shunt, Closed top, .252”* | | **Y** = *Yellow ** |
| **MS2H** = *.079” Mini Shunt, Handle-top, .429”* | | **G** = *Green ** |
| **MSA** = *.100” Shunt, Closed top, .256”* | | ** Minimum order required* |
| **MSB** = *.100” Shunt, Open top, .236”* | | |
| **MSC** = *.100” Shunt, Open top, .177”* | | |
| **MSDA** = *.100” Shunt, Closed top, .315”* | | |
| **MSDB** = *.100” Shunt, Open top, .315”* | | |
| **MSBH** = *.100” Shunt, Handle-top, .531”* | | |
| **MSE** = *.100” Shunt, Closed top, 3 position* | | |
| **MST** = *.100” Shunt, 10 piece strip* | | |
| **MSBG** = *.100” Ganged Shunt, block type (Specify # of positions, 2 thru 10)* | | |

# Shunts

## .050”, 2MM, .100” & .200” CENTERLINE

| PART NUMBER | BODY STYLE/HEIGHT | PLATING | CENTERLINE | PRODUCT DATA |
|---|---|---|---|---|
| HMSA-G | Handle Top, .216” | Gold | .050” [1.27] | View |
| HMSA-T | Handle Top, .216” | Tin | .050” [1.27] | View |
| HMSC-G | Closed Top, .118” | Gold | .050” [1.27] | View |
| HMSC-T | Closed Top, .118” | Tin | .050” [1.27] | View |
| MS2A-X | Open Top, .177” | Tin or Gold Option | .079” [2.00] | View |
| MS2A-X-R | Open Top, .177” | Tin or Gold Option | .079” [2.00] | View |
| MS2B-G-CT | | Gold | .079” [2.00] | View |
| MS2B-X | Open Top, .138” | Tin or Gold Option | .079” [2.00] | View |
| MS2BG-XX-G | Ganged, Block Type | Gold | .079” [2.00] | View |
| MS2BG-XX-T | Ganged, Block Type | Tin | .079” [2.00] | View |
| MS2C-X | Closed Top, .197” | Tin or Gold Option | .079” [2.00] | View |
| MS2H-1-G | Handle Top, .374” | Gold | .079” [2.00] | View |
| MS2H-1-T | Handle Top, .374” | Tin | .079” [2.00] | View |
| MS2H-1-X | Handle Top, .374” | Tin or Gold Option | .079” [2.00] | View |
| MS2H-2-X | Handle Top, .429” | Tin or Gold Option | .079” [2.00] | View |
| MSA-G | Closed Top, .256” | Gold | .100” [2.54] | View |
| MSA-T | Closed Top, .256” | Tin | .100” [2.54] | View |
| MSB-G | Open Top, .236” | Gold | .100” [2.54] | View |
| MSB-T | Open Top, .236” | Tin | .100” [2.54] | View |
| MSBG-XX-G | Ganged, Block Type | Gold | .100” [2.54] | View |
| MSBG-XX-G-10 | Ganged, Block Type | Gold | .100” [2.54] | View |
| MSBG-XX-G-30 | Ganged, Block Type | Gold | .100” [2.54] | View |
| MSBG-XX-T | Ganged, Block Type | Tin | .100” [2.54] | View |
| MSBH-G-10 | Handle Top, .531” | Gold | .100” [2.54] | View |
| MSBH-G-30 | Handle Top, .531” | Gold | .100” [2.54] | View |

| PART NUMBER | BODY STYLE/HEIGHT | PLATING | CENTERLINE | PRODUCT DATA |
|---|---|---|---|---|
| MSBH-G-30-R | Handle Top, .531” | Gold | .100” [2.54] | View |
| MSBH-G-A-30 | Handle Top, .531” | Gold | .100” [2.54] | View |
| MSBH-G-A-30-R | Handle Top, .531” | Gold | .100” [2.54] | View |
| MSBH-G-H105 | Handle Top, .413” | Gold | .100” [2.54] | View |
| MSBH-G-H105-R | Handle Top, .413” | Gold | .100” [2.54] | View |
| MSBH-X | Handle Top, .531” | Tin or Gold Option | .100” [2.54] | View |
| MSBH-X-A | Handle Top, .531” | Tin or Gold Option | .100” [2.54] | View |
| MSBH-X-B | Handle Top, .531” | Tin or Gold Option | .100” [2.54] | View |
| MSBH-X-R | Handle Top, .531” | Tin or Gold Option | .100” [2.54] | View |
| MSBH-X-Y | Handle Top, .531” | Tin or Gold Option | .100” [2.54] | View |
| MSC-G | Open Top, .177” | Gold | .100” [2.54] | View |
| MSC-T | Open Top, .177” | Tin | .100” [2.54] | View |
| MSDA-G | Closed Top, .335” | Gold | .100” [2.54] | View |
| MSDA-G-30 | Closed Top, .335” | Gold | .100” [2.54] | View |
| MSDA-T | Closed Top, .335” | Tin | .100” [2.54] | View |
| MSDA-X-HR | Closed Top, .315” | Tin or Gold Option | .100” [2.54] | View |
| MSDB-G | Open Top, .315” | Gold | .100” [2.54] | View |
| MSDB-G-15 | Open Top, .315” | Gold | .100” [2.54] | View |
| MSDB-T | Open Top, .315” | Tin | .100” [2.54] | View |
| MSE-G | Closed Top, .256” | Gold | .200” [5.08] | View |
| MSE-T | Closed Top, .256” | Tin | .200” [5.08] | View |
| MST-G | 10 Piece Strip | Gold | .100” [2.54] | View |
| MST-G-15 | 10 Piece Strip | Gold | .100” [2.54] | View |
| MST-G-15-WT | 10 Piece Strip | Gold | .100” [2.54] | View |
| MST-G-30 | 10 Piece Strip | Gold | .100” [2.54] | View |
| MST-T | 10 Piece Strip | Tin | .100” [2.54] | View |

# DVI Connectors

DIGITAL VIDEO INTERFACE

Adam Tech DVI series Digital Visual Interface connectors are the standard digital interface for flat panels, video graphics cards, monitors and HDTV units. This series includes DVI-D (Digital), DVI-A (Analog) and DVI-I (Integrated Digital/Audio). Their unique crossing ground blades provide high speed performance at low cost. Available in Straight or Right Angle PCB mount receptacles, each version also features our specially designed contacts which improve signal performance and a zinc alloy shield that reduces electromagnetic interference (EMI).





## FEATURES & SPECIFICATIONS

### FEATURES:
Supports Analog and Digital signals
Offers excellent EMI/RFI performance
Plug and Play interface
Supports high bandwidth up to 2.5 GHz analog signal
Variety of Mating and mounting options

### MATING CONNECTORS:
Adam Tech DVI connectors and all industry standard DVI connectors.

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Standard insulator: PA66, Glass filled, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T rated UL94V-0
Insulator Color: White, (Black optional)
Contacts: Phosphor Bronze
Shell: Steel, Nickel Plated

### Contact Plating:
Gold over Nickel underplate on mating area,
Tin over Copper underplate on tails

### Electrical:
Operating Voltage: 250V AC
Current Rating: 1.5 Amps max.
Contact Resistance: 20 mΩ max. initial
Insulation Resistance: 1000 MΩ min.
Dielectric Withstanding Voltage: 500V AC for 1 minute

### Mechanical:
Insertion force: 10 lb max.
Withdrawal force: 2.2 lb. min.
Durability: 100 cycles

### Temperature Rating:
Operating Temperature: -20°C to +85°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

## PART NUMBER CONFIGURATION

**DVI - SL - 24 - 2 - JS**

| SERIES INDICATOR | BODY STYLE | POSITIONS | APPLICATION | OPTIONS |
|---|---|---|---|---|
| **DVI** = *Digital Video Interface Connector* | **SL** = *Socket, Right Angle PCB Tail*<br>**ST** = *Socket, Straight PCB Tail* | **24** = *24 Position* | **1** = *Digital*<br>**2** = *Analog* | *Add designator(s) to end of part number*<br>**JS** = *Jackscrews Installed* |

| PART NUMBER | MOUNTING ORIENTATION | APPLICATION | PRODUCT DATA |
|---|---|---|---|
| DVI-SL-24-1 | Right Angle Through Hole | Digital | View |
| DVI-SL-24-2 | Right Angle Through Hole | Analog | View |
| DVI-ST-24-2 | Vertical Through Hole | Analog | View |

# Miniature Ribbon Connectors

Adam Tech MR Series Miniature Ribbon connectors come in a variety of terminations including Solder Terminals, Straight PCB Tails, Right Angle PCB Mount, Flat Cable IDC and Straddle Mount Card Edge. These connectors with their high pressure, flat wiping contacts are a very popular widely used interface especially in telecommunication applications. Offered in 14, 24, 36, and 50 positions they are a good choice for high reliability positive latching connector applications.



## FEATURES & SPECIFICATIONS

### FEATURES:
Available in many termination styles
High pressure blade contacts
Industry standard compatibility
Durable metal shell design
Variety of Mating and mounting options

### MATING CONNECTORS:
Adam Tech Miniature Ribbon connectors and all industry standard miniature ribbon connectors.

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Standard insulator: PBT, Glass filled, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Blue (Black optional)
Contacts: Phosphor Bronze
Shell: Steel, nickel plated

### Contact Plating:
Gold over Nickel underplate on mating area, Tin over Copper underplate on tails

### Electrical:
Operating Voltage: 250V AC
Current Rating: 1 Amp max.
Contact Resistance: 35 mΩ max.
Insulation Resistance: 1000 MΩ min.
Dielectric Withstanding Voltage: 1000V AC for 1 minute

### Mechanical:
Insertion force: 12 oz max.
Withdrawal force: 4.8 oz min.

### Temperature Rating:
Operating Temperature: -55°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

| PART NUMBER | POSITIONS | GENDER | TERMINATION TYPE | MOUNTING | PRODUCT DATA |
|---|---|---|---|---|---|
| MRXX-PA-34 | 14 | Plug | Solder Terminals | #4-40 threaded clinch nuts in mounting holes w/o spring latches | View |
| MRXX-PC-34 | 14 | Plug | Straight PCB Tail | #4-40 threaded clinch nuts in mounting holes w/o spring latches | View |
| MRXX-PD-34 | 14 | Plug | Right Angle PCB Mount | #4-40 threaded clinch nuts in mounting holes w/o spring latches | View |
| MRXX-PE-2 | 14 | Plug | IDC, All Plastic Shell | Notch Ears | View |
| MRXX-PF-2 | 14 | Plug | IDC, Metal Shell | Notch Ears | View |
| MRXX-PG-2 | 14 | Plug | Straddle Mount Tails | Notch Ears | View |
| MRXX-SA-34 | 14 | Socket | Solder Terminals | #4-40 threaded clinch nuts in mounting holes w/o spring latches | View |
| MRXX-SC-34 | 14 | Socket | Straight PCB Tail | #4-40 threaded clinch nuts in mounting holes w/o spring latches | View |
| MRXX-SE-1 | 14 | | IDC, All Plastic Shell | Spring latches with .120" diameter mounting holes (socket only) | View |
| MRXX-SF-1 | 14 | Socket | IDC, Metal Shell | Spring latches with .120" diameter mounting holes (socket only) | View |
| MRXX-SG-3 | 14 | Socket | Straddle Mount Tails | .120" diameter mounting holes only | View |

## PART NUMBER CONFIGURATION

**MR14 - P A - 34 - 30**

| SHELL SIZE & POSITIONS | CONTACT TYPE | TERMINATION TYPE | MOUNTING | OPTIONS: |
|---|---|---|---|---|
| **MR14** = *14 Contacts*<br>**MR24** = *24 Contacts*<br>**MR36** = *36 Contacts*<br>**MR50** = *50 Contacts* | **P** = *Plug*<br>**S** = *Socket* | **A** = *Solder Terminals*<br>**C** = *Straight PCB Tail*<br>**D** = *Right Angle PCB Mount*<br>**E** = *IDC, All plastic shell*<br>**F** = *IDC, Metal Shell*<br>**G** = *Straddle Mount Tails* | **1** = *Spring latches with .120" diameter mounting holes (socket only)*<br>**14** = *Spring latches with #4-40 clinch nuts in mounting holes (socket only)*<br>**2** = *Notch Ears (plug only)*<br>**3** = *.120" diameter mounting holes only*<br>**34** = *#4-40 threaded clinch nuts in mounting holes w/o spring latches* | *Add designator(s) to end of part number*<br>**BK** = *Black color insulator*<br>**F** = *Forked boardlocks*<br>**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C*<br>**LI** = *Spring Latches Installed* |

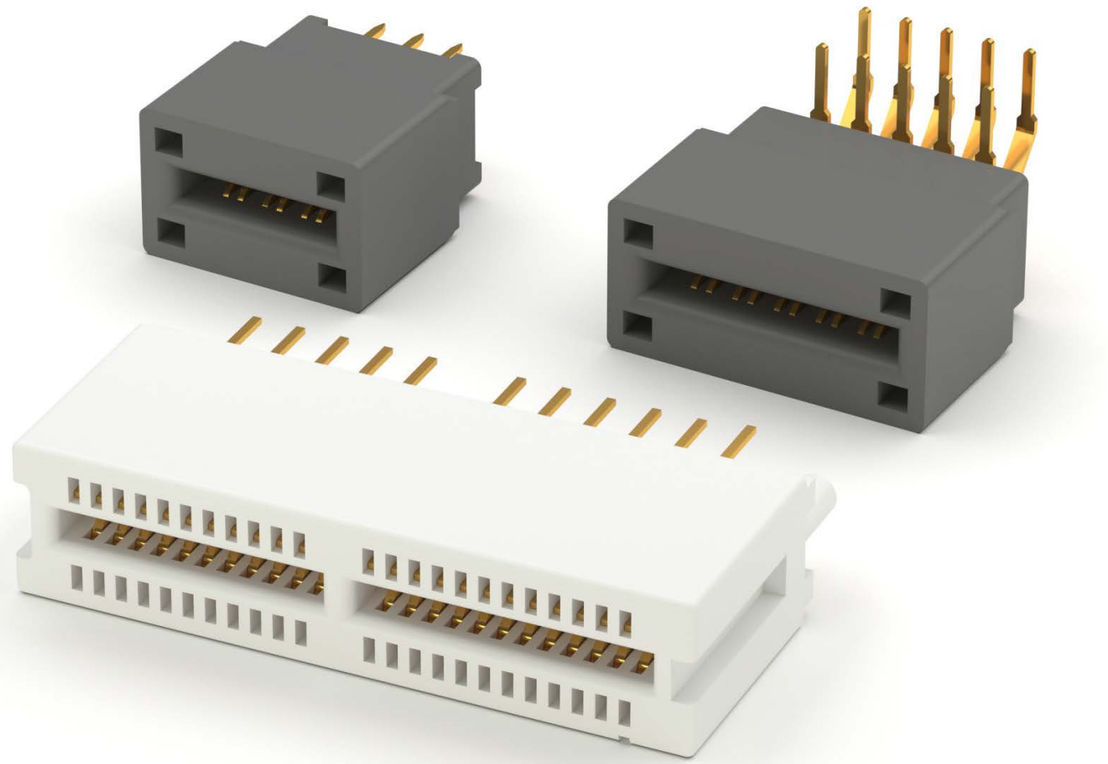
## CASE STUDY



Miniature Ribbon Connectors can be found at the back of desktop computers. They are commonly used to terminate ribbon cables, which connect a desktop computer to external devices such as hard drives and CD drives.

# Card Edge Connectors

Adam Tech CE Series Card Edge Connectors are precision engineered PCB mount connectors developed to mate with the plated fingers of a printed circuit daughter board. Their bifurcated, cantilever contacts are set in a dual readout configuration and they offer a reliable connection for a wide range of PCB thicknesses. Adam Tech's sturdy solder tails with tapers allow easy insertion and rugged durability.



## FEATURES & SPECIFICATIONS

### FEATURES:
.100" x .200" centerlines
Selectively gold plated contacts
Wide selection of positions
Compatible with a wide range of PCB thicknesses

### MATING PC BOARDS:
All printed circuit boards with a thickness of .055" to .075"

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

### Contact Plating:
Gold over Nickel underplate on contact area, tin over copper underplate on tails.

### Electrical:
Operating voltage: 250V AC max.
Current rating: 3 Amps max.
Contact resistance: 30 mΩ max. initial
Insulation resistance: 3000 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

### Mechanical:
Insertion force: 10 oz max.
Withdrawal force: 3 oz min

### Temperature Rating:
Operating temperature: -55°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

| PART NUMBER | PITCH | POSITIONS | MOUNTING ORIENTATION | TYPE (FOR .050) | PRODUCT DATA |
|---|---|---|---|---|---|
| CE-XX-U | 0.100 | 04-120 | Vertical Through Hole | | View |
| CERA-XX-U | 0.100 | 04-120 | Right Angle Through Hole | | View |
| HMCA-A-182-G | 0.050 | 182 | Vertical Through Hole | VESA Micro-Channel | View |
| HMCA-A-184-G | 0.050 | 184 | Vertical Through Hole | VESA Micro-Channel | View |
| HMCA-A-XXX-G | 0.050 | 112 or 120 | Vertical Through Hole | VESA Micro-Channel | View |

## CARD EDGE PART NUMBER CONFIGURATION

**CE - 98 - U - 30**

| SERIES | POSITIONS | CONTACT PLATING | OPTIONS: |
|---|---|---|---|
| **CE** = *Card Edge Connector, Vertical Mount*<br>**CERA** = *Card Edge Connector, Right Angle Mount* | **4, 6, 8, 12, 16, 20, 24, 26, 28, 30, 32, 34, 36, 38, 40, 44, 48, 50, 60, 62, 64, 70, 72, 80, 86, 98, 100, 108, 120** | **U** = *Selectively gold plated contacts* | *Add designator(s) to end of part number*<br>**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C*<br>**BR** = *Board retention tails* |

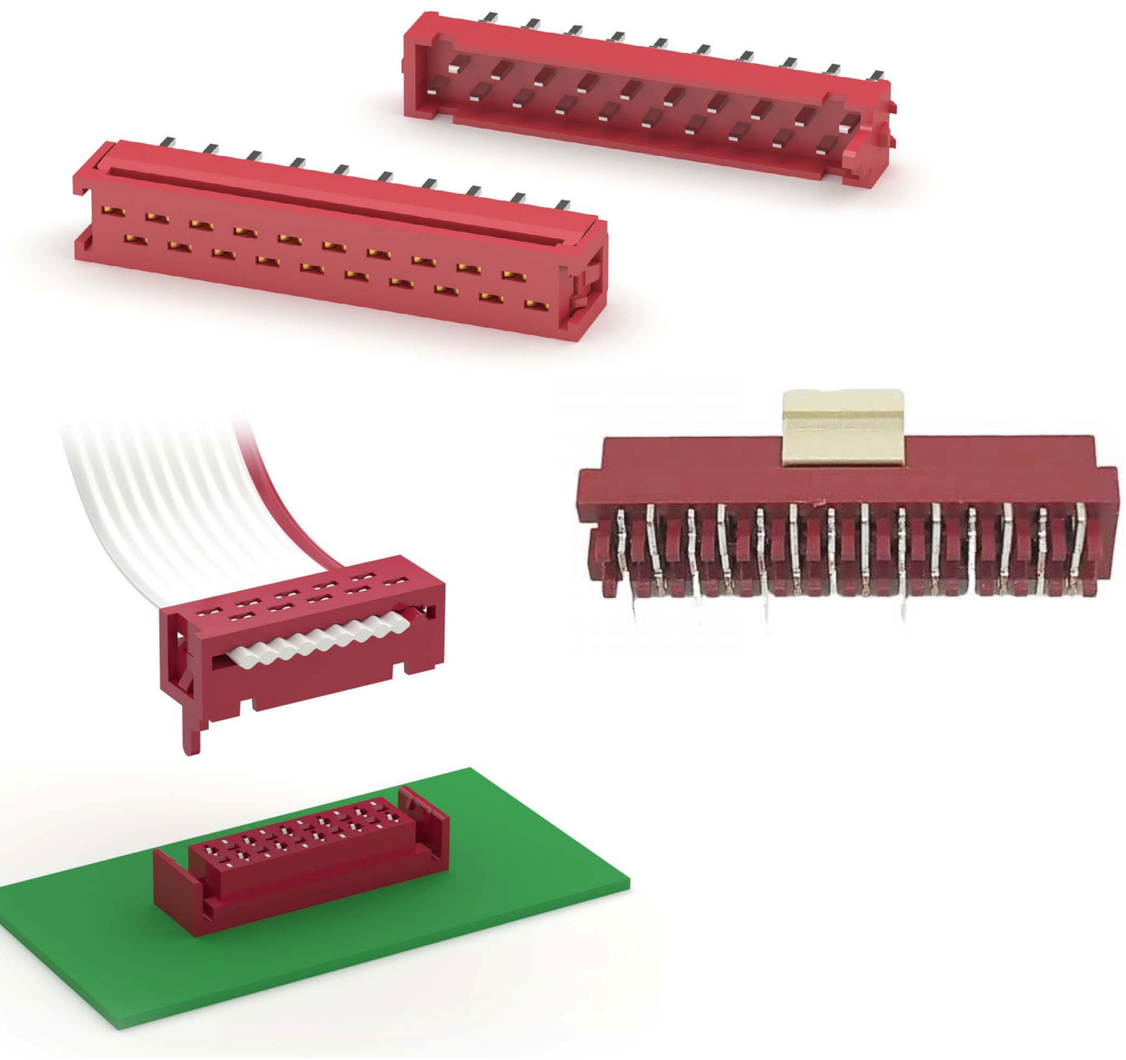
## HIGH DENSITY CARD EDGE PART NUMBER CONFIGURATION

**HMCA - A - 112 - G**

| SERIES | PEGS | POSITIONS | PLATING |
|---|---|---|---|
| **HMCA** = *VESA Micro-channel Card Edge connector* | **A** = *Plastic pegs*<br>**B** = *Metal boardlocks* | **112, 120, 132, 182, 184, 194** | **G** = *Selectively gold plated contacts* |

# Mini Flex Connectors

Adam Tech's Mini-Flex series of connectors include cable to board, wire to board and board to board choices. This series is designed with a dual contact point mating system and an array of locating posts and PCB pegs for positive alignment and friction lock mating. Rigid, staggered solder tails provide excellent stability for rugged use and feature kinked tails for PCB retention.



## FEATURES & SPECIFICATIONS

### FEATURES:
Fine .050" pitch for hi-density connection
Flat heavy gauge contact blades for positive connectivity
Equipped with polarizing posts and locating pegs
Positive friction locking mating
Kinked solder tails for PCB retention

### SPECIFICATIONS:

### Material:
Insulator: Polyester, glass filled, rated UL94V-0
Insulator color: Red
Contacts: Phosphor bronze or brass

### Plating:
Tin over Copper underplate overall

### Electrical:
Operating voltage: 250V AC
Current rating: 1.2 Amps Max.
Contact resistance: 10 mΩ Max.
Insulation resistance: 1000 MΩ Min.
Dielectric withstanding voltage: 750V AC for 1 Minute

### Temperature rating:
Operation temperature range: -25°C ~ +105°C

### PACKAGING:
Anti ESD plastic trays or tubes

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

## PART NUMBER CONFIGURATION

**MPH - 20 - F - T - T/R**

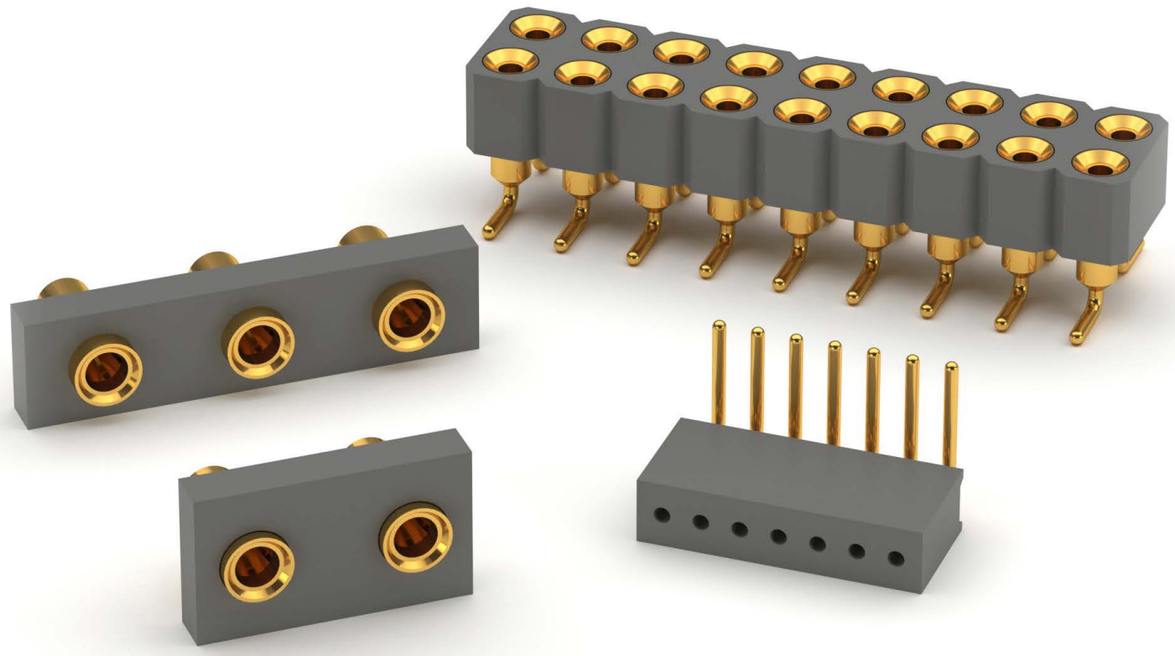
| SHELL SIZE & POSITIONS | POSITIONS | TYPE | PLATING | OPTIONS: |
|---|---|---|---|---|
| **MPH** = *Male*<br>**MPH-A** = *Male*<br>**MPH-A2** = *Male*<br>**MPF** = *Female*<br>**MPF-A** = *Female*<br>**MPF-A1** = *Female*<br>**MFC** = *Flat Cable DIP Plug*<br>**MFC-A** = *Flat Cable DIP Plug* | **4, 6, 8, 10, 12, 14, 16, 18, 20, 24, 26** | **F** = *Flat Cable IDC*<br>**V** = *Straight PCB Mount*<br>**H** = *Right Angle PCB Mount*<br>**SMT** = *Straight Surface Mount* | **SG** = *Selective Gold plating in contact area and Tin plating on tails*<br>**G** = *Gold Flash Plated*<br>**T** = *Tin Plated* | *Add designator(s) to end of part number*<br>**KT** = *Mylar Tape*<br>**L** = *Locking Flange*<br>**T/R** = *Tape & Reel Packaging* |

| PART NUMBER | TYPE | POSITIONS | MOUNTING ORIENTATION | PLATING | OPTIONS | PRODUCT DATA |
|---|---|---|---|---|---|---|
| MFC-A-XX-F-T | Male | 4-26 | Flat Cable IDC | Tin | | View |
| MPF-A-XX-H-T | Male | 4-26 | Right Angle, Through Hole | Tin | | View |
| MPF-A-XX-SMT-T | Female | 4-26 | Vertical, Surface Mount | Tin | | View |
| MPF-A-XX-SMT-T-KT | | | | | | View |
| MPF-A-XX-SMT-T-KT-T/R | | | | | | View |
| MPF-A1-XX-H-T | Female | 4-24 | Right Angle, Through Hole | Tin | | View |
| MPF-A1-XX-SMT-T | Female | 4-24 | Vertical, Surface Mount | Tin | | View |
| MPF-A1-XX-V-T-L | Female | 4-26 | Vertical, Through Hole | Tin | Locking Flange | View |
| MPF-XX-V-T-L | Female | 4-26 | Vertical, Through Hole | Tin | Locking Flange | View |
| MPH-A-XX-SMT-T | Male | 4-26 | Vertical, Surface Mount | Tin | | View |
| MPH-A2-XX-SMT-T | Male | 4-26 | Vertical, Surface Mount | Tin | | View |
| MPH-A2-XX-V-T | Male | 4-26 | Vertical, Through Hole | Tin | | View |
| MPH-XX-F-SG | Male | 4-26 | Flat Cable IDC | Selective Gold | | View |
| MPH-XX-F3-T | Male | 4-26 | Flat Cable IDC | Tin | | View |
| MPH-XX-V-T | Male | 4-26 | Vertical, Through Hole | Tin | | View |

# Machine Headers & Receptacles

## SCREW MACHINE SOCKETS

Adam Tech's line of Screw Machine Sockets feature solid precision turned sleeves with a closed bottom design to eliminate flux intrusion and solder wicking during soldering. The stamped spring copper insert provides excellent connection and allows for repeated insertion and withdrawal. These sockets are offered in single or dual row body styles. Other options include pitch, positions, and plating.



## FEATURES & SPECIFICATIONS

### FEATURES:
High Pressure Contacts
Precision Stamped Internal Spring Contact
Anti-Solder Wicking design
Machine Insertable
Single or Dual Row
Low Profile

### MATING COMPONENTS:
Any industry standard components with SIP or DIP leads

### PACKAGING:
Anti-ESD plastic tubes

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Standard insulator: PBT, Glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

### Contact Plating:
Gold over Nickel underplate and Tin over copper underplate

### Electrical:
Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 30 mΩ max. initial
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

### Mechanical:
Insertion force: 400 grams initial max with .025 dia. leads
Withdrawal force: 90 grams initial min with .025 dia. leads

### Temperature Rating:
Operating temperature: -55°C to +85°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

## SCREW MACHINE SOCKETS PART NUMBER CONFIGURATION

**SMC - 1 - 04 - 1 - GT**

| SERIES | BODY STYLE | POSITIONS | TAIL LENGTH | PLATING |
|---|---|---|---|---|
| **1SMC** = *.039 (1.00mm) Screw machine contact socket*<br>**HSMC** = *.050 (1.27mm) Screw machine contact socket*<br>**2SMC** = *.078 (2.00mm) Screw machine contact socket*<br>**SMC** = *.100 (2.54mm) Screw machine contact socket* | **1** = *Single Row Straight*<br>**1R** = *Single Row Right Angle*<br>**2** = *Dual Row Straight*<br>**2R** = *Dual Row Right Angle* | *Single Row:*<br>**01** *thru* **40**<br>*Dual Row:*<br>**02** *thru* **80** | **1** = *Standard length* | **GT** = *Gold plated inner contact, tin plated outer sleeve*<br>**TT** = *Tin plated inner contact, tin plated outer sleeve* |

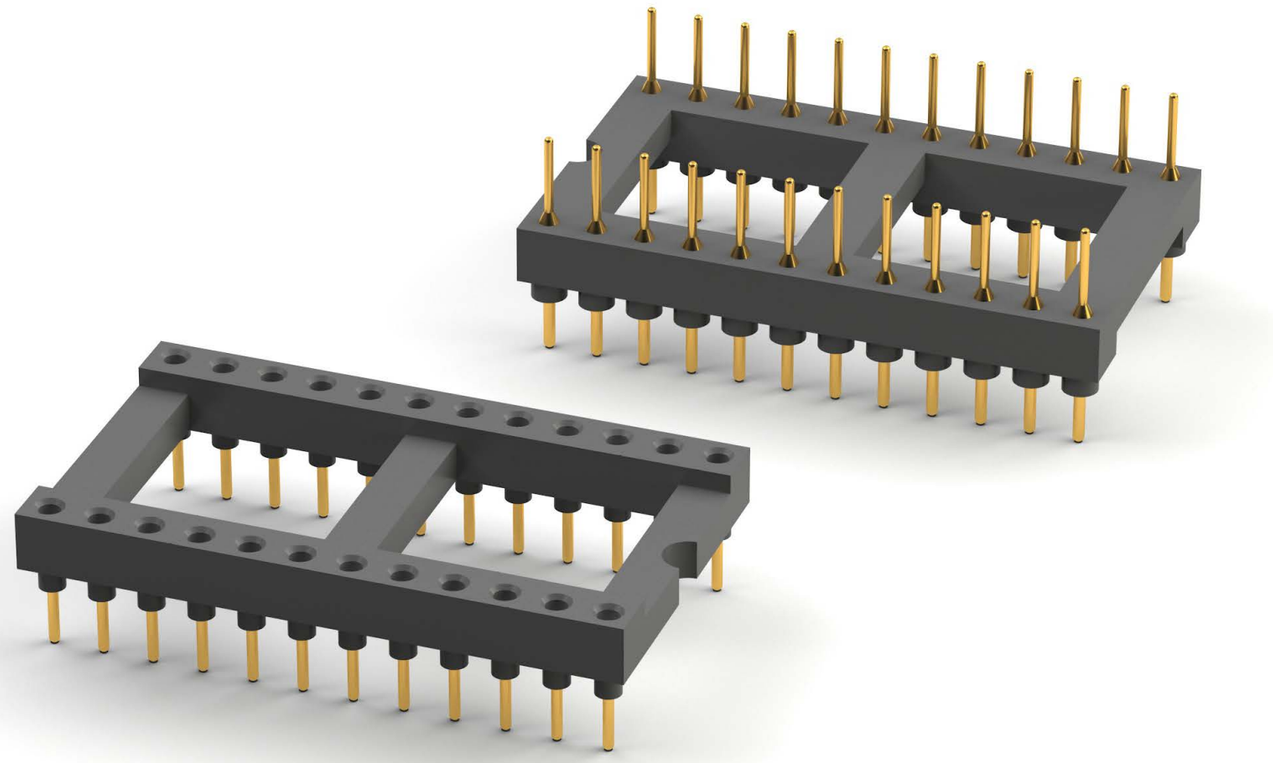
**OPTIONS:**
*Add designator(s) to end of part number*
**SMT** = *Surface mount leads Dual Row*
**SMT-A** = *Surface mount leads Type A*
**SMT-B** = *Surface mount leads Type B*
**HT** = *Hi-Temp insulator for Hi-Temp soldering processes up to 260°C*

| PART NUMBER | CENTERLINE | BODY STYLE | POSITIONS | PLATING | PRODUCT DATA |
|---|---|---|---|---|---|
| 1SMC-1-XX-1-GT | .039" [1.00mm] | Single Row, Straight | 01-80 | Gold Plated Inner Contact, Tin Plated Outer Sleeve | |
| 2SMC-1-XX-1-GT | .079" [2.00mm] | Single Row, Straight | 01-80 | Gold Plated Inner Contact, Tin Plated Outer Sleeve | View |
| 5SMC1-03-G | .200" [5.08mm] | Single Row, Straight | 01-80 | Gold Overall | View |
| 5SMC2-02-G | .200" [5.08mm] | Single Row, Straight | 01-80 | Gold Overall | View |
| HSMC-1-XX-1-GT | .050" [1.27mm] | Single Row, Straight | 01-80 | Gold Plated Inner Contact, Tin Plated Outer Sleeve | View |
| ICM-3XX-1-GT-HT | .100" [2.54mm] | Dual Row, Straight | 06-28 | Gold Plated Inner Contact, Tin Plated Outer Sleeve | View |
| ICM-6XX-1-GT-HT | .100" [2.54mm] | Dual Row, Straight | 06-28 | Gold Plated Inner Contact, Tin Plated Outer Sleeve | View |
| SMC-1-XX-1-GT | .100" [2.54mm] | Single Row, Straight | 01-80 | Gold Plated Inner Contact, Tin Plated Outer Sleeve | View |
| SMC-2-XX-1-GT | .100" [2.54mm] | Dual Row, Straight | 02-80 | Gold Plated Inner Contact, Tin Plated Outer Sleeve | View |

# Machine Headers & Receptacles

SCREW MACHINE IC SOCKETS AND DIP TERMINALS

Adam Tech boasts a diverse line of Screw Machine IC Sockets and DIP Terminals. This product line provides durable protection to IC chips and allows for their convenient insertion and removal. These parts are available in a variety of options, including row spacing, positions, tail length, and plating.



## FEATURES & SPECIFICATIONS

### FEATURES:

Row spacing options ranging from .300" to .900"
Positions ranging from 6 to 52
Standard DIP length tails
Gold plated inner contacts
Tin plated outer sleeves
Durable IC chip protection
Convenient insertion and removal

### SPECIFICATIONS:

**Material:**
Insulator: PBT, rated UL 94V-0
Insulator color: Black
Contacts: Brass or copper alloy
Clip: Beryllium copper

**Contact Plating:**
Inner contact: Gold over nickel underplate
Outer sleeve: Tin over nickel/copper underplate

**Electrical:**
Current rating: 3 Amps max
Voltage rating range: 60 to 150V DC
Current resistance: 4 mohms per contact
Insulation resistance range: 1000 to 10000 Mohms

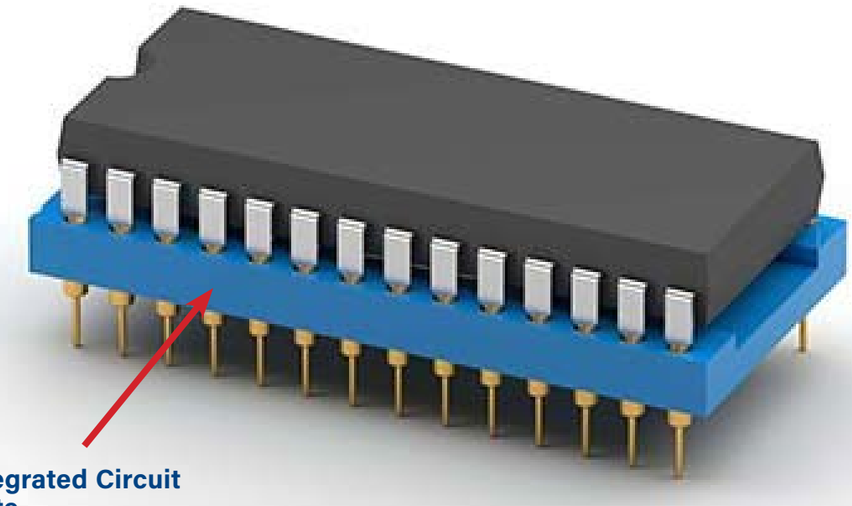
**Temperature Rating:**
Operating temperature range: -55°C to +125°C

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

## OPEN FRAME SCREW MACHINE SOCKETS & TERMINALS PART NUMBER CONFIGURATION

| ICM | - | 6 | - | 28 | - | 1 | - | GT |
|---|---|---|---|---|---|---|---|---|
| **SERIES** | | **ROW SPACING** | | **POSITIONS** | | **TAIL LENGTH** | | **PLATING** |
| **ICM** = *Screw Machine IC Socket*<br>**TMC** = *Screw Machine DIP Terminals* | | **3** = *.300" Row Spacing*<br>*Positions: 06, 08, 10, 14, 16, 18, 20, 24, 28*<br>**4** = *.400" Row Spacing*<br>*Positions: 20, 22, 24, 28, 32,*<br>**6** = *.600" Row Spacing*<br>*Positions: 24, 28, 32, 36, 40, 42, 48, 50, 52*<br>**9** = *.900" Row Spacing*<br>*Positions: 50 & 52* | | **06** *thru* **52** | | **1** = *Standard DIP length*<br>**2** = *Wire wrap tails* | | **GT** = *Gold plated inner contact, tin plated outer sleeve*<br>**TT** = *Tin plated inner contact, tin plated outer sleeve* |



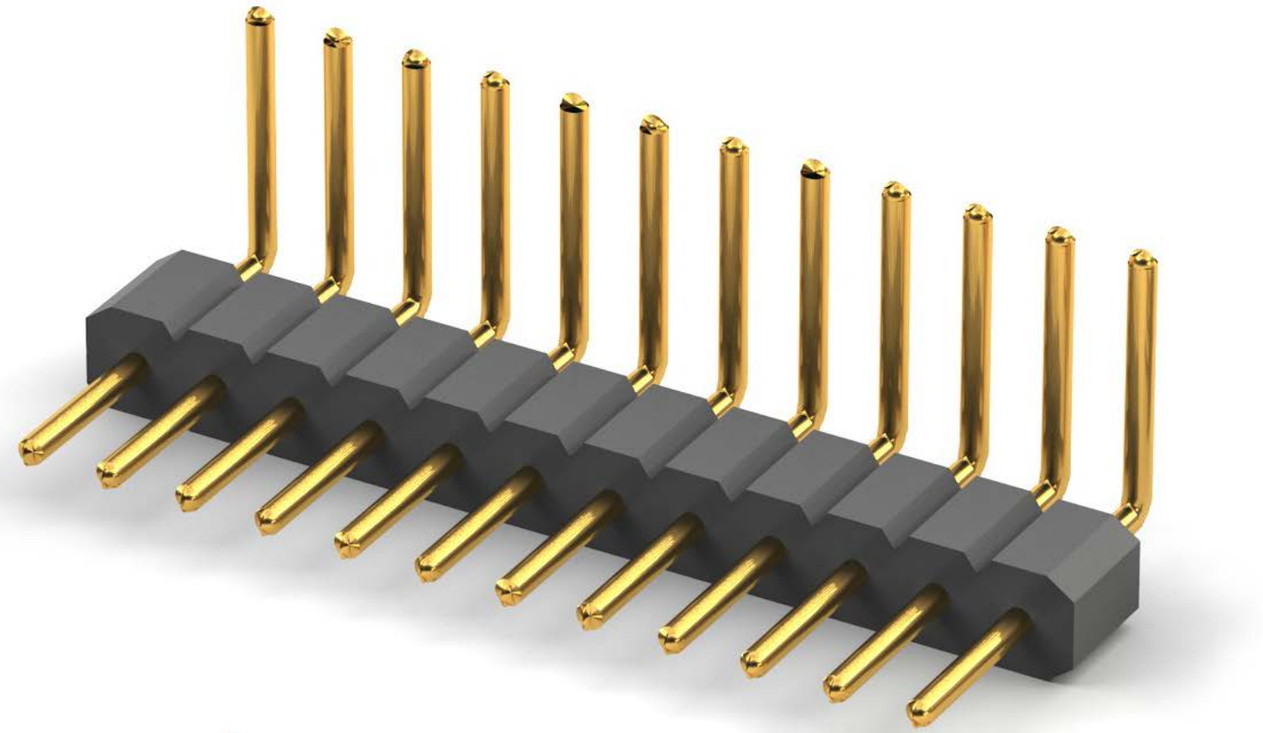
Integrated Circuit Mate

| PART NUMBER | ROW SPACING | POSITIONS | TAIL LENGTH | PLATING | TYPE | PRODUCT DATA |
|---|---|---|---|---|---|---|
| ICM-3XX-1-GT | .300" | 06-52 | Standard DIP Length | Gold Plated Inner Contact, Tin Plated Outer Sleeve | IC Socket | View |
| ICM-4XX-1-GT | .400" | 06-52 | Standard DIP Length | Gold Plated Inner Contact, Tin Plated Outer Sleeve | IC Socket | View |
| ICM-6XX-1-GT | .600" | 06-52 | Standard DIP Length | Gold Plated Inner Contact, Tin Plated Outer Sleeve | IC Socket | View |
| ICM-9XX-XX-1-GT | .900" | 06-52 | Standard DIP Length | Gold Plated Inner Contact, Tin Plated Outer Sleeve | IC Socket | |
| TMC-3XX-1-G | .300" | 06-52 | Standard DIP Length | Gold Plated Inner Contact, Tin Plated Outer Sleeve | DIP Terminal | View |
| TMC-6XX-1-G | .600" | 06-52 | Standard DIP Length | Gold Plated Inner Contact, Tin Plated Outer Sleeve | DIP Terminal | View |

# Machine Headers & Receptacles

## SCREW MACHINE TERMINAL STRIPS (HEADERS)

Adam Tech's Screw Machine Terminal Strips are designed with reliability and integration in mind. The high quality of this series allows it to mate seamlessly with compatible screw machine sockets. These terminal strips are offered in a variety of body styles, pitches, positions, and plating options.







## FEATURES & SPECIFICATIONS

### FEATURES:

Pitch options ranging from .039" to .100"
Positions ranging from 1 to 80
Single row
Straight body
Gold plated

### SPECIFICATIONS:

### Material:

Insulator: Hi-temp thermoplastic, rated UL 94V-0
Insulator color: Black
Contacts: Brass
Contact Plating:
Gold over nickel underplate overall

### Electrical:

Current rating range: 1 to 3 Amps max
Voltage rating: 75V DC max
Contact resistance: 10 mohms max
Insulation resistance: 10000 Mohms min
Dielectric withstanding voltage range: 500 to 1000V AC for 1 minute

### Temperature Rating:

Operating temperature range: -55°C to +125°C

### APPROVALS AND CERTIFICATIONS:

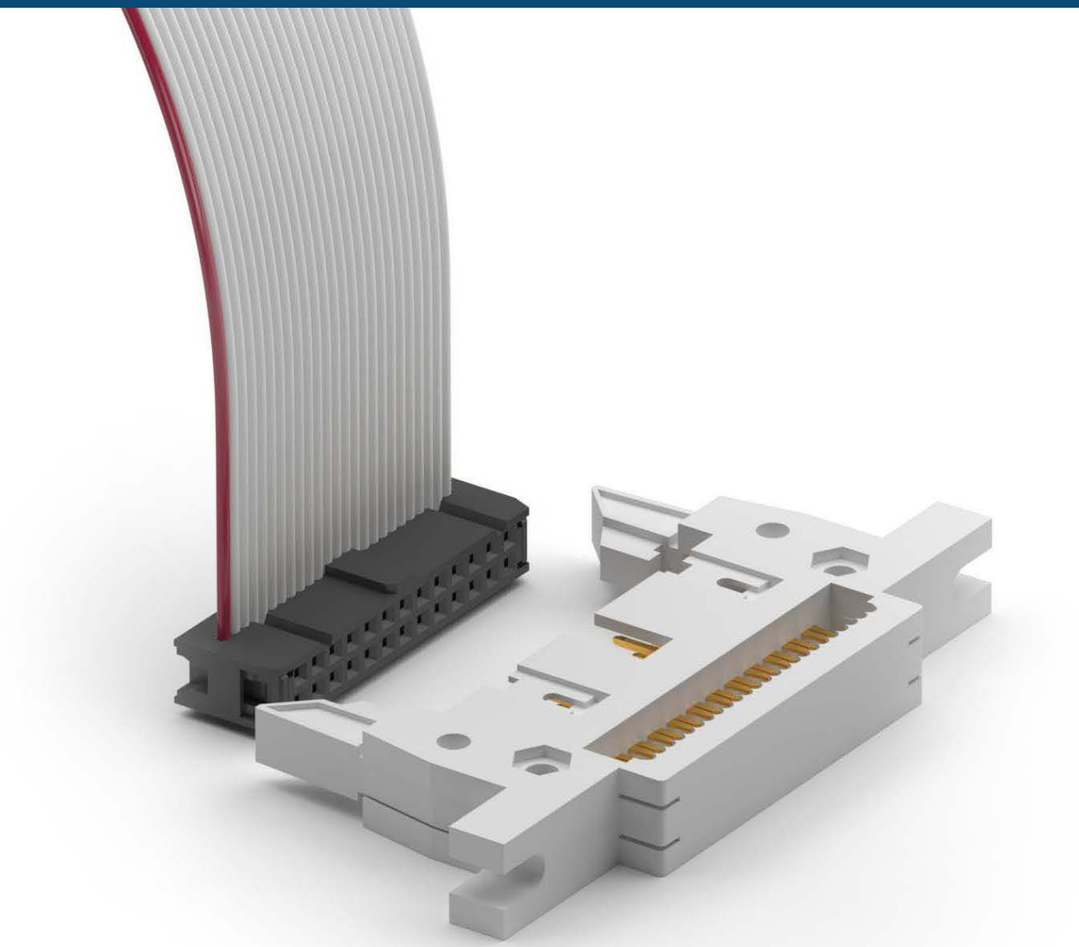
UL Recognized File no. E224053

## PART NUMBER CONFIGURATION

| MCT | - 1 | - 04 | - 1 | - GT |
|---|---|---|---|---|
| **SERIES** | **BODY STYLE** | **POSITIONS** | **TAIL LENGTH** | **PLATING** |
| **1MCT** = *.039 (1.00mm) Screw maching contact terminal strip*<br>**HMCT** = *.050 (1.27mm) Screw maching contact terminal strip*<br>**2MCT** = *.078 (2.00mm) Screw maching contact terminal strip*<br>**MCT** = *.100 (2.54mm) Screw maching contact terminal strip* | **1** = *Single Row Straight*<br>**1R** = *Single Row Right Angle*<br>**2** = *Dual Row Straight*<br>**2R** = *Dual Row Right Angle* | *Single Row:* **01** *thru* **40**<br>*Dual Row:* **02** *thru* **80** | **1** = *Standard Length*<br>**2** = *Special Length, customer specified as tail length/total length* | **GT** = *Gold Internal Contct, Tin Sleeve*<br>**TT** = *Tin Overall* |

| PART NUMBER | CENTERLINE | BODY STYLE | POSITIONS | PLATING | PRODUCT DATA |
|---|---|---|---|---|---|
| 1MCT-1-XX-1-GT | .039" [1.00mm] | Single Row, Straight | 01-80 | Gold | |
| 2MCT-1-XX-1-G | .079" [2.00mm] | Single Row, Straight | 01-80 | Gold | View |
| HMCT-1-XX-1-G | .050" [1.27mm] | Single Row, Straight | 01-80 | Gold | View |
| MCT-1-XX-1-G | .100" [2.54mm] | Single Row, Straight | 01-80 | Gold | View |

Insulation Displacement termination connectors (IDC) are designed to quickly and effectively terminate flat cable in a wide variety of applications. The IDC termination style has migrated and been implemented into a wide range of connector styles because of its reliability and ease of use.



## FEATURES & SPECIFICATIONS

### FEATURES:
.050" x .050" or .050" x .100"
Low Profile and High Density
Uses Single layer .025" Flat Cable
Quickly and easily mass terminates standard Flat Cable
Smooth High Pressure Wiping Contacts

### MATING CONNECTORS:
Adam Tech .050" HBHR series box headers, latch headers or HPH2 series pin headers

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

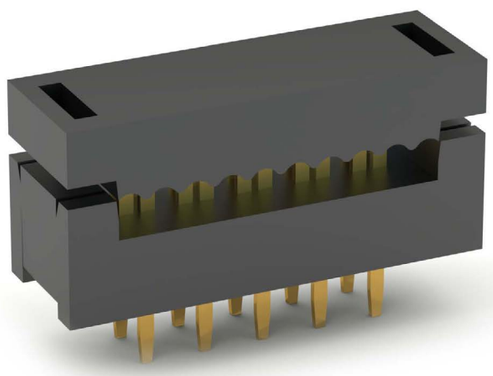
### Material:
Insulator: PBT, glass reinforced, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

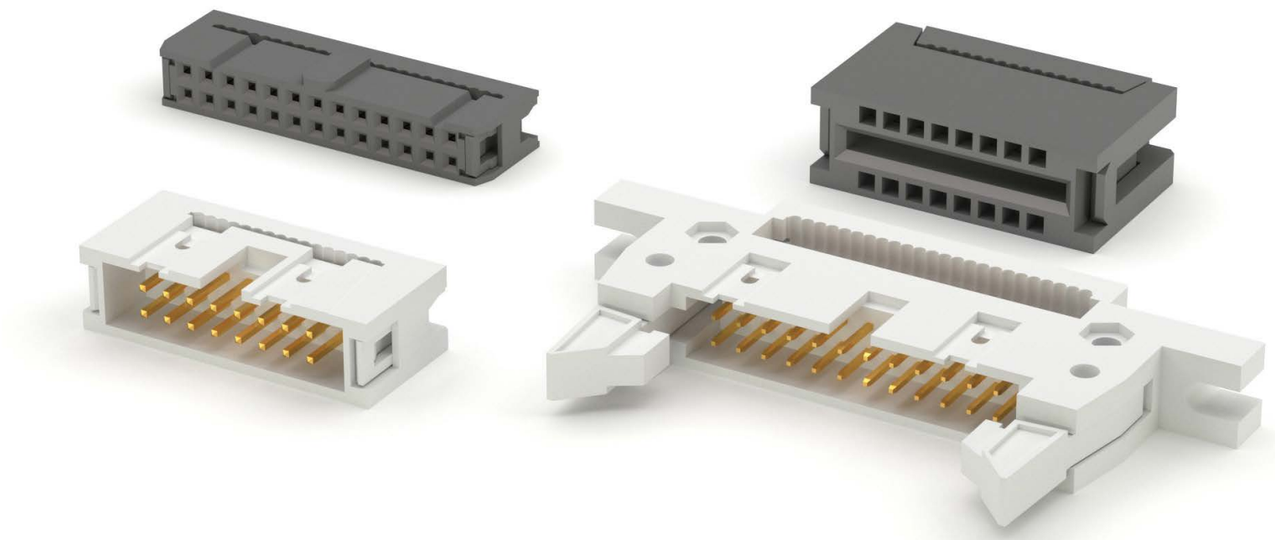
### Contact Plating:
Tin over copper underplate overall

### Electrical:
Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 20 mΩ max. Initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

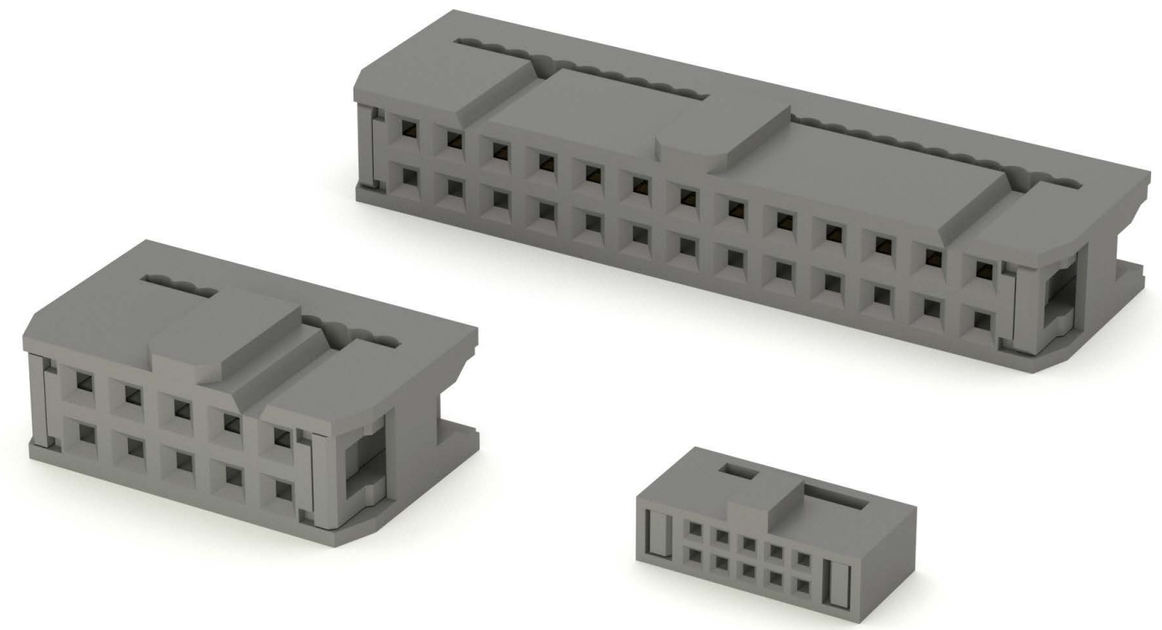
### Mechanical:
Insertion force: 0.312 lbs per contact max.
Withdrawal force: 0.094 lbs per contact min.
Recommended wire size: 28 Awg stranded
Cable retention: 22 lbs. min axial force per inch.
Mating durability: 500 cycles min.

### Temperature Rating:
Operating temperature: -40°C to +105°C





Adam Tech IDC Sockets are extremely popular, low profile, precision designed flat cable sockets that feature .100" pin to pin and row to row centerlines. These sockets quickly and easily mass terminate flat cable in one simple step. Their versatility allows them to mate with a multitude of .025" sq. post pin headers. Our superior selectively gold plated contact design provides a smooth high pressure wiping action to ensure excellent continuity. They are used with a single layer of .050" flat cable. Their small size, light weight, low cost and high density make them ideal for use in many applications.



## FEATURES & SPECIFICATIONS

### FEATURES:
Choice of Single or Dual beam contact design
Low Profile and High Density
Uses Single layer .050" standard Flat Cable
Quickly and easily mass terminates Flat Cable
Smooth High Pressure Wiping Contacts

### MATING CONNECTORS:
Adam Tech .100" BHR series box headers and PH2 series pin headers

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

#### Material:
Insulator: PBT, glass reinforced, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

#### Contact Plating:
Gold flash over nickel underplate on contact area, tin over copper underplate on IDC area

#### Electrical:
Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 30 mΩ max. initial
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

#### Mechanical:
Insertion force: FCS-D2: 0.5 lbs per contact max.
Withdrawal force: FCS-D2: 0.094 lbs per contact min.
Recommended wire size: 28 Awg stranded
Cable retention: 28 lbs. min axial force per inch.
Mating durability: 500 cycles min.

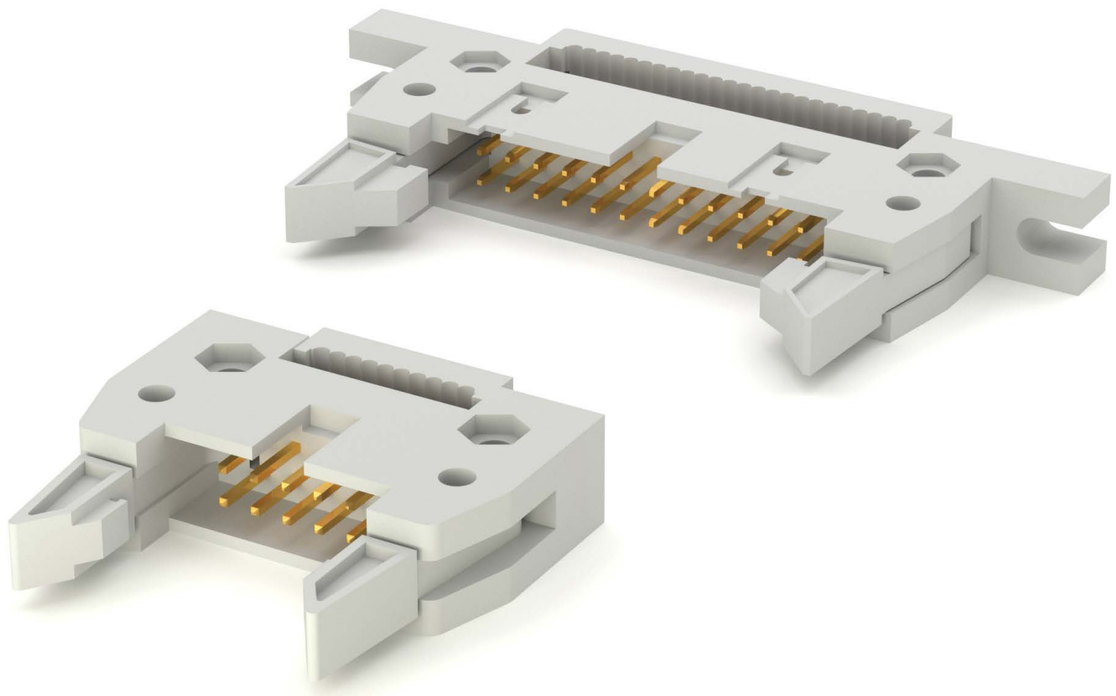
#### Temperature Rating:
Operating temperature: -40°C to +105°C

## IDC SOCKETS PART NUMBER CONFIGURATION

| FCS - | 06 - | SG - | | 30 |
|---|---|---|---|---|
| **SERIES** | **POSITIONS** | **PLATING** | **OPTIONS:** | |
| **HFCS**= *.050" (1.27x2.54mm) Flat Cable Low profile IDC Socket*<br>**HFCS-A**= *.050" (1.27x1.27mm) Flat Cable Low profile IDC Socket .050"x.050"*<br>**2FCS**= *.078" (2.00mm) Flat Cable IDC Socket*<br>**FCS** = *Flat Cable IDC Socket with standard single wipe contacts*<br>**FCS-D2** = *Flat cable IDC socket with dual wipe contacts* | *HFCS Series:* **10, 14, 16, 20, 22, 26, 30, 34, 40, 44, 50, 60, 68, 80, 100**<br>*HFCS-A Series:* **6 thru 26, 30, 34, 40, 50, 60, 80**<br>*2FCS Series:* **6 thru 34, 36, 40, 44, 50, 60, 62, 64, 68**<br>*FCS Series:* **06, 08, 10, 12, 14, 16, 20, 24, 26, 30, 34, 40, 44, 50, 56, 60, 62, 64** | **SG** = *Selective gold plating* | *Add designator(s) to end of part number*<br>**N** = *No polarization bump*<br>**STRAIN RELIEF:**<br>**FSR-XX** *(XX = No. of Positions)*<br>**PULL TABS:**<br>**PT-XX** *(No. of positions)*<br>**KEYING PLUGS:**<br>**FCS-K** *(Key plugs can also be molded into connector, consult factory)* | |

| PART NUMBER | STRAIN RELIEF | CENTERLINE | CONTACT STYLE | POSITIONS | PLATING | PRODUCT DATA |
|---|---|---|---|---|---|---|
| 2FCS-B-XX-SG-PB | | .079" [2.00mm] | | 06-68 | Selective Gold | View |
| 2FCS-C-XX-SG-PB | | .079" [2.00mm] | | 06-68 | Selective Gold | View |
| 2FCS-C-XX-SG-PB-SR | | .079" [2.00mm] | | 06-68 | Selective Gold | View |
| 2FCS-C1-XX-SG-PB-FSR | Yes | .079" [2.00mm] | Dual Wipe Contacts | 06-64 | Selective Gold | View |
| 2FCS-D-XX-SG-PB-15 | | .079" [2.00mm] | | 06-68 | Selective Gold | View |
| 2FCS-XX-SG | | .079" [2.00mm] | | 06-68 | Selective Gold | View |
| 2FCS-XX-SG-PB | | .079" [2.00mm] | | 06-68 | Selective Gold | View |
| 2FCS-XX-SG-PB-30 | | .079" [2.00mm] | | 06-68 | Selective Gold | View |
| 2FCS-XX-SG-PB-A | | .079" [2.00mm] | 4 Wipe Contacts | 06-68 | Selective Gold | View |
| 2FSR-XX | Yes | | | 06-68 | | View |
| FCS-C1-XX-G | | .100" [2.54mm] | Single Wipe Contacts | 06-64 | Gold | View |
| FCS-D2-XX-SG | | .100" [2.54mm] | Dual Wipe Contacts | 06-64 | Selective Gold | View |
| FCS-D2C1-XX-SG-FSR | Yes | .100" [2.54mm] | Dual Wipe Contacts | 06-64 | Selective Gold | View |
| FCS-XX-SG | | .100" [2.54mm] | Single Wipe Contacts | 06-68 | Selective Gold | View |
| FSR-XX | Yes | | | 06-64 | | View |
| HFCS-A-XX-SG | | .050" x .050" | | 06-68 | Selective Gold | View |
| HFCS-A1-XX-G | | .050" x .050" | | 06-80 | Gold | View |
| HFCS-XX-SG | | .050" x .100" | | 06-68 | Selective Gold | View |

Adam Tech IDC Latch Headers are designed to quickly and easily mass terminate to .050" flat cable. The IDC termination is converted to a Shrouded Box Header with ejector/latches and a polarizing slot that mates with standard IDC sockets. This connector is ideal for splicing and making "T" taps to a cable bus. Adam Tech's sturdy design features solid, selectively gold plated .025"sq. copper alloy posts.



## FEATURES & SPECIFICATIONS

### FEATURES:
Latches for secure attachment
Latch ejection feature makes socket removal easy
IDC Cable to Shrouded Box Header
Mates with standard IDC sockets
Ideal for splicing and "T" taps to cable bus
Solid selectively gold plated contacts

### MATING CONNECTORS:
Mates with Adam Tech FCS Series .100" (2.54mm) dual row IDC sockets

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

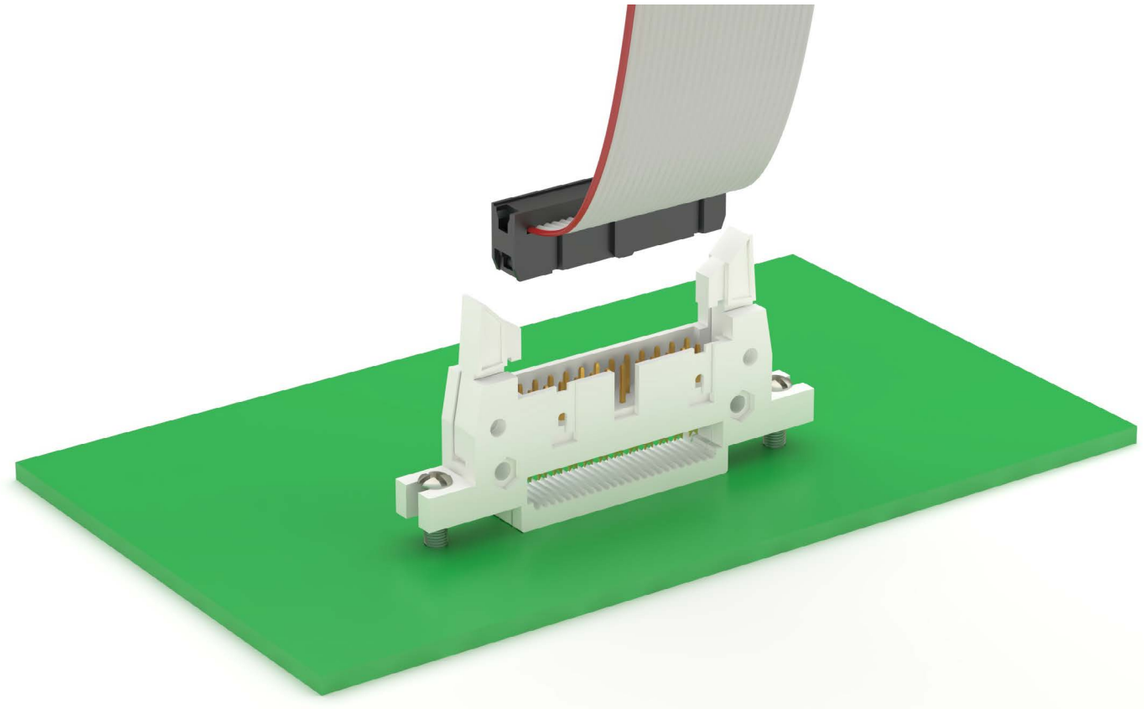
### Material:
Insulator: PBT, rated UL94V-0
Insulator Color: Gray
Contacts: Brass

### Contact Plating:
Gold flash (30 µin optional) over nickel on contact area,
Tin over copper underplate on IDC area

### Electrical:
Operating voltage: 250V AC max.
Current rating: 1 Amp max
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Insertion force: 0.5 lbs per circuit max.
Withdrawal force: 0.094 lbs per circuit min
Mating durability: 500 Cycles min.
Recommended cable size: 28 Awg stranded

### Temperature Rating:
Operating temperature: -40°C to +105°C



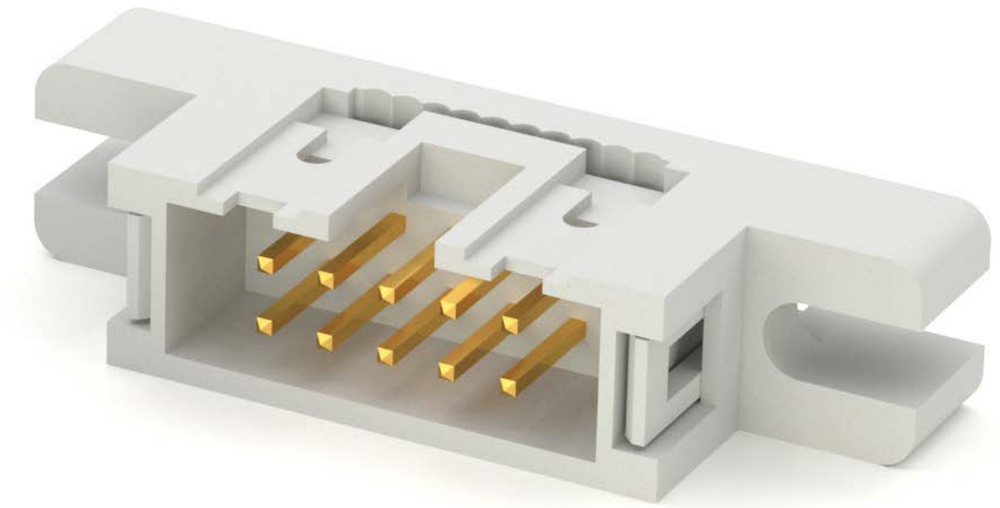
## IDC LATCHING HEADERS PART NUMBER CONFIGURATION

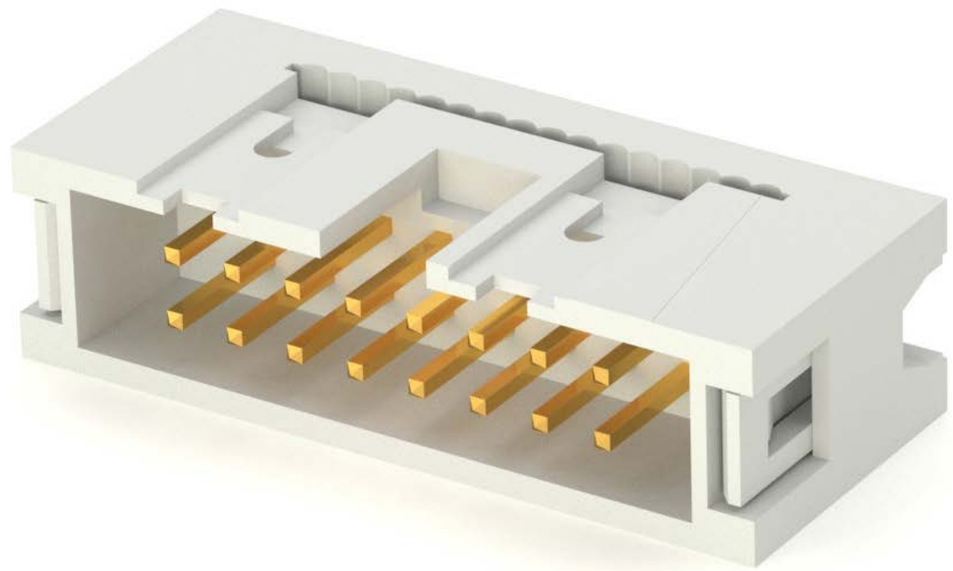
**MHF - 10 - SG - S - E**

| SERIES | POSITIONS | PLATING | EJECTOR/LATCHES | OPTIONS: |
|---|---|---|---|---|
| **MHF** = *IDC Latch Header* | **10, 14, 16, 20, 24, 26, 30, 34, 40, 50, 60, 64** | **SG** = *Selective gold plating* | **S** = *Short ejector/latches for sockets without strain relief*<br>**L** = *Long ejector/latches for sockets with strain relief* | *Add designator(s) to end of part number*<br>**E** = *Mounting Ears* |

| PART NUMBER | CENTERLINE | POSITIONS | PLATING | OPTIONS | LATCH TYPE | PRODUCT DATA |
|---|---|---|---|---|---|---|
| MHF-XX-SG-L | .100" [2.54mm] | 10-64 | Selective Gold | | Long Ejector Latches - For Sockets with Strain Relief | View |
| MHF-XX-SG-L-E | .100" [2.54mm] | 10-64 | Selective Gold | Mounting Ears | Long Ejector Latches - For Sockets with Strain Relief | View |
| MHF-XX-SG-S | .100" [2.54mm] | 10-64 | Selective Gold | | Short Ejector Latches - For Socket without Strain Relief | View |
| MHF-XX-SG-S-E | .100" [2.54mm] | 10-64 | Selective Gold | Mounting Ears | Short Ejector Latches - For Socket without Strain Relief | View |

Adam Tech IDC Box Headers are designed to quickly and easily mass terminate to .050" flat cable. The IDC termination is converted to a Shrouded Box Header output with a polarizing slot that mates with standard IDC sockets. This connector is ideal for splicing and making "T" taps to a cable bus. Adam Tech's sturdy design features solid, selectively gold plated .025"sq. copper alloy posts.





## FEATURES & SPECIFICATIONS

### FEATURES:
IDC Flat Cable to Shrouded Box Header
Mates with standard IDC sockets
Ideal for splicing and "T" taps to cable bus
Solid selectively gold plated contacts

### MATING CONNECTORS:
Mates with Adam Tech FCS Series .100" [2.54mm] dual row IDC sockets

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Insulator: PBT, rated UL94V-0
Insulator Color: Gray
Contacts: Brass

### Contact Plating:
Gold flash over nickel underplate on contact area, tin over copper underplate on IDC area

### Electrical:
Operating voltage: 250V AC max.
Current rating: 1 Amp max
Contact resistance: 30 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Insertion force: 0.5 lbs per circuit max.
Withdrawal force: 0.094 lbs per circuit min
Mating durability: 500 cycles min.
Recommended cable size: 28 Awg stranded

### Temperature Rating:
Operating temperature: -40°C to +105°C

## IDC BOX HEADERS PART NUMBER CONFIGURATION

| FCP | - | 10 | - | SG | - | E |
|---|---|---|---|---|---|---|

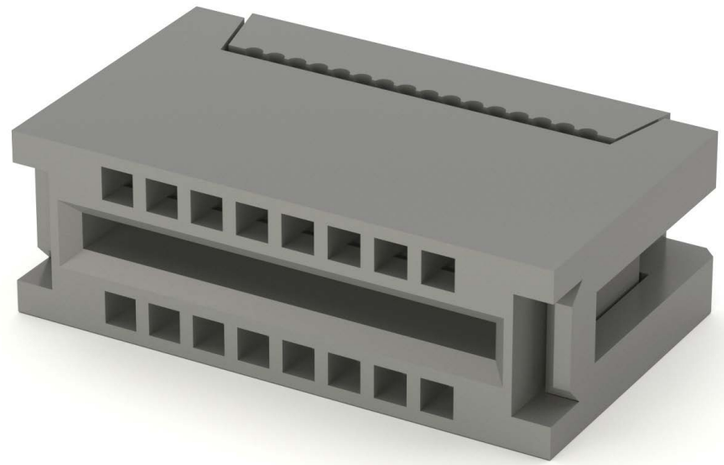
| SERIES | POSITIONS | PLATING | OPTIONS: |
|---|---|---|---|
| **FCP** = *IDC Box Header* | **10, 14, 16, 20, 24, 26, 30, 34, 40, 50, 60, 64** | **SG** = *Selective gold plating* | *Add designator(s) to end of part number*<br>**E** = *Mounting Ears* |

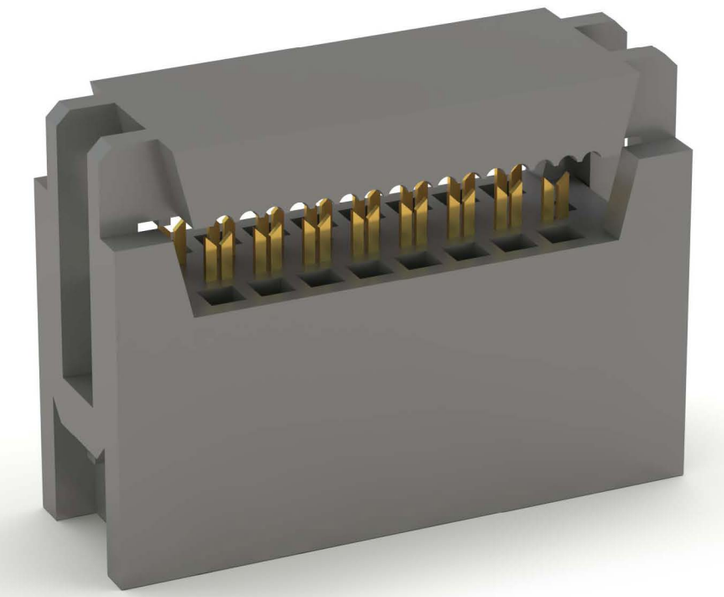
| PART NUMBER | CENTERLINE | POSITIONS | PLATING | OPTIONS | PRODUCT DATA |
|---|---|---|---|---|---|
| FCP-XX-SG | .100" [2.54mm] | 10-64 | Selective Gold | | View |
| FCP-XX-SG-E | .100" [2.54mm] | 10-64 | Selective Gold | Mounting Ears | View |

# IDC Connectors

## IDC CARD EDGE

Adam Tech FCE Series IDC Card Edge Connectors are designed to quickly and easily mass terminate .050" flat cable and mate directly with the plated fingers of a PCB as a card edge connector. Our superior designed crimp cap features guides to reduce occurrence of mis-mating and our specially engineered contacts provide strong wiping action and high retention to the PCB.





## FEATURES & SPECIFICATIONS

### FEATURES:
Available with or without mounting ears
Special "easy fit" cap reduces mis-mating
High Retention to PCB
Selectively Gold plated Bifurcated contacts

### MATING OPTIONS:
Printed circuit boards with a thickness of .058" to .070"

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Insulator: PBT, glass reinforced, rated UL94V-0
Insulator Color: Black, (Gray optional)
Contacts: Phosphor Bronze

### Contact Plating:
Gold flash over nickel underplate on contact area,
Tin over copper underplate on IDC area

### Electrical:
Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 30 mΩ max. initial
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

### Mechanical:
PCB Insertion force: 0.406 lbs per contact max.
With .062 thick board
Withdrawal force: 0.312 lbs per contact min.
With .062 thick board
Recommended wire size: 28 Awg stranded
Cable retention: 28 lbs. min axial force per inch.
Mating durability: 500 cycles min.

### Temperature Rating:
Operating temperature: -40°C to +105°C

## IDC CARD EDGE PART NUMBER CONFIGURATION

| FCE | - | 10 | - | SG | - | E |
|---|---|---|---|---|---|---|

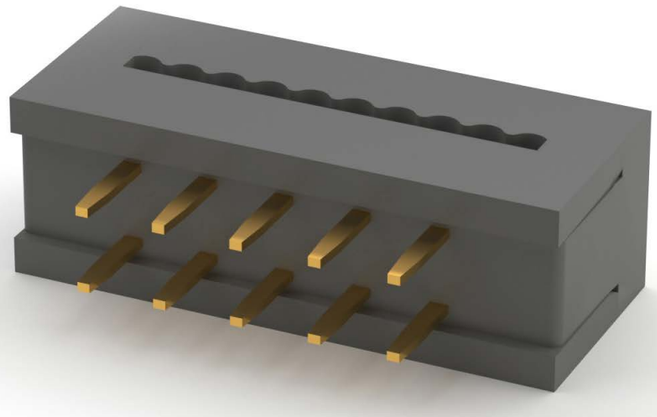
| SERIES | POSITIONS | PLATING | OPTIONS: |
|---|---|---|---|
| **FCE** = *Card Edge, IDC* | **10, 14, 16, 20, 26, 34, 40, 50, 60, 62, 64** | **SG** = *Selective gold plating* | *Add designator(s) to end of part number*<br>**E** = *Mounting Ears*<br><br>**STRAIN RELIEF:**<br>**FCR - XX** *(XX= No. of Positions)*<br><br>**KEYING PLUGS:**<br>**FCE-K** *(Key plugs can also be molded into connector, consult factory)* |

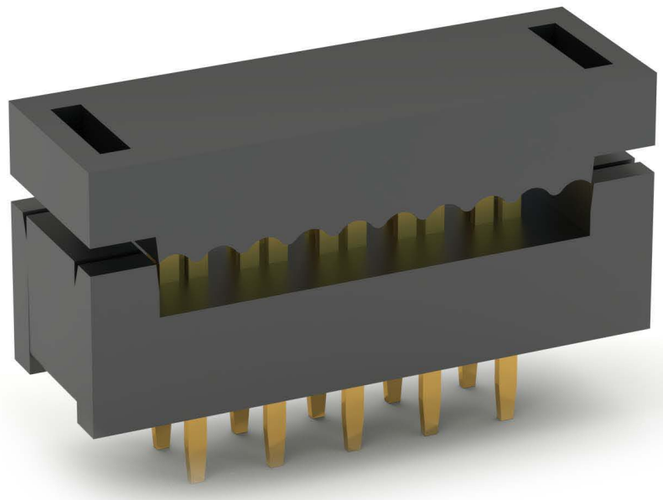
| PART NUMBER | CENTERLINE | POSITIONS | PLATING | OPTIONS | PRODUCT DATA |
|---|---|---|---|---|---|
| FCE-XX-SG | .100" [2.54mm] | 10-64 | Selective Gold | | View |
| FCE-XX-SG-E | .100" [2.54mm] | 10-64 | Selective Gold | Mounting Ears | View |

# IDC Connectors

## IDC DIP & TRANSITION PLUGS

Adam Tech's Flat Cable DIP & Transition plugs are a one piece connector system that quickly and easily mass terminates flat cable then mounts directly to the PCB or PCB socket. These connectors are ideal for interconnecting PCB's in a permanent flat cable transition or satisfying disconnect applications. Our low profile design allows an increased board to board stacking density.





## FEATURES & SPECIFICATIONS

### FEATURES:
Available in 8 – 64 positions
Eliminates need for two piece header & Socket set
Fast easy mass termination without stripping cable
Heavy duty Tin plated contacts
Low Profile, high density board to board stacking
Plugs into IC Socket or solders directly to PCB

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Insulator: PBT, glass reinforeced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black (Gray optional)
Contacts: Brass

### Contact Plating:
G = Gold over nickel underplate on contact area, Tin over copper underplate on IDC area.
T = Tin over copper underplate overall

### Electrical:
Operating voltage: 250V AC max.
Current rating: 3 Amp max
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:
Recommended cable size: 28 Awg stranded

### Temperature Rating:
Operating temperature: -40°C to +105°C

## IDC DIP & TRANSITION PLUGS PART NUMBER CONFIGURATION

| FTR | - | 08 | - | T | - | GY |
|---|---|---|---|---|---|---|

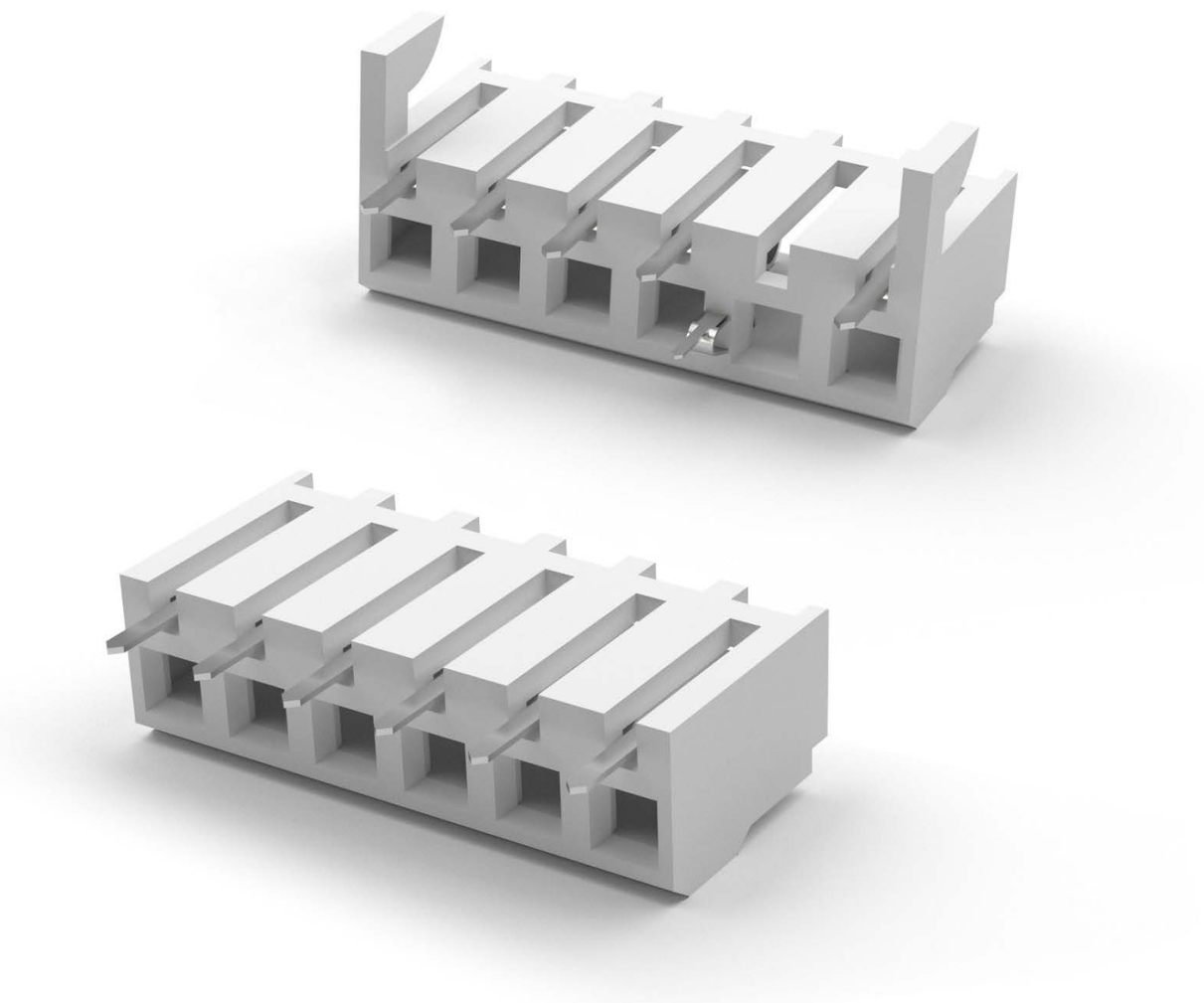
| SERIES | POSITIONS | PLATING | OPTIONS: |
|---|---|---|---|
| **FTR** = *IDC Flat Cable Transition Plug .100" x .100"*<br>**FDP-3** = *IDC Flat Cable Dip Plug .100" x .300"*<br>**FDP-6** = *IDC Flat Cable Dip Plug .100" x .600"* | *FTR: .100" row spacing*<br>*Positions:* **06, 08, 10, 12, 14, 16, 18, 20, 24, 26, 28, 30, 34, 40, 50, 60, 64**<br><br>*FDP-3: .300" row spacing*<br>*Positions:* **08, 10, 14, 16, 18, 20, 24, 26, 28, 34, 40**<br><br>*FDP-6: .600" row spacing*<br>*Positions:* **24, 28, 32, 36, 40** | **T** = *Tin plated*<br>**G** = *Gold plating on tails* | *Add designator(s) to end of part number*<br>**GY** = *Gray color insulator* |

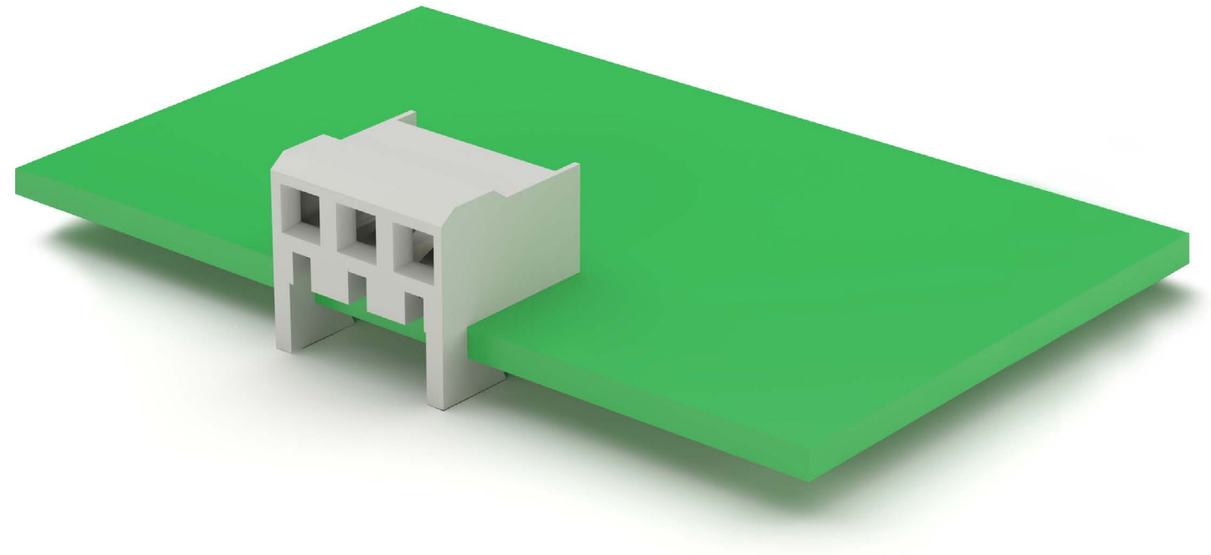
| PART NUMBER | PLUG TYPE | PITCH | PLATING | PRODUCT DATA |
|---|---|---|---|---|
| FDP-3XX-T | Flat Cable DIP Plug | .100" [2.54mm] | Tin | View |
| FDP-6XX-T | Flat Cable DIP Plug | .100" [2.54mm] | Tin | View |
| FTR-XX-T | IDC DIP Plug | .100" [2.54mm] | Tin | View |

# Receptacles with Board Hooks

.100” & .156” CENTERLINE

Adam Tech PCE & PCD Series receptacles are PCB mounted sockets that have integral PC Board hooks which wrap around the edge of the PCB for added stability. They are made with three mounting and mating configurations which include Top, Bottom & Side entry.





## FEATURES & SPECIFICATIONS

### FEATURES:
.100” & .156” Centerlines
Hooks for stability to PCB
High normal force contacts
Low insertion force
Three mounting orientation options

### MATING HEADERS:
Adam Tech PH & LHB headers and all industry standard .100” and .156” pitch pin headers with a .025” or .045” square or round pins

### PACKAGING:
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:
UL Recognized File no. E224053

### SPECIFICATIONS:

### Material:
Insulator: Nylon 66, rated UL94V-0
Insulator Color: Natural
Contacts: Phosphor Bronze

### Contact Plating:
Tin over copper underplate overall

### Electrical:
Operating voltage: 250V AC max.
Current rating: .100 pitch: 3 Amp max.
.156 pitch: 7 Amps max.
Contact resistance: 10 mΩ max. Initial
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1500V AC for 1 minute

### Mechanical:
Insertion force: 0.375 lbs max
Withdrawal force: 0.187 lbs min.
Recommended PCB Thickness: 0.063” (1.6mm]

### Temperature Rating:
Operating temperature: -40°C to +105°C

## PART NUMBER CONFIGURATION

| PCD | - | A | - | 02 | - | NH |
|---|---|---|---|---|---|---|

| SERIES | ENTRY ANGLE | POSITIONS | OPTIONS |
|---|---|---|---|
| **PCE** = *.100” PCB Connector with board hooks*<br>**PCD** = *.156” PCB Connector with board hooks* | **A** = *Top entry*<br>**B** = *Side entry*<br>**C** = *Bottom entry* | **02** *thru* **20** | **NH** = *No Board hooks* |

| PART NUMBER | CENTERLINE | ENTRY ANGLE | PRODUCT DATA |
|---|---|---|---|
| PCD-A-XX | .156" [3.96mm] | Top Entry | View |
| PCD-B-XX | .156" [3.96mm] | Side Entry | View |
| PCD-C-XX | .156" [3.96mm] | Bottom Entry | View |
| PCE-A-XX | .100" [2.54mm] | Top Entry | View |
| PCE-B-XX | .100" [2.54mm] | Side Entry | View |
| PCE-C-XX | .100" [2.54mm] | Bottom Entry | View |

# Cable Accessories

Adam Tech's vast line of cable assemblies is further enhanced with a wide offering of accessories. IP68 waterproof plastic and metal cable glands headline this series, with their ability to effectively seal and connect cables to a device. Next is Heat Shrink Tubing, which includes standard, dual wall, and high voltage. An RF crimp tool kit is available, equipped with a ratchet crimper, cable cutter, cable stripper and full die set. Lastly, quick disconnect terminals are offered in both cable mount and board mount styles.



## FEATURES & SPECIFICATIONS

### FEATURES:

Provide support to cable assemblies
RF crimp tool kit with three tools and six dies
Heat shrink tubing in various sizes, cut lengths, and colors
Variety of quick disconnect terminals including insulated and through hole
IP68 waterproof cable glands in various sizes

### SPECIFICATIONS:

#### Material:

Tools: Carbon steel
Heat shrink tubing: Polyolefin
Quick disconnect terminals: Bronze or brass, tin plated
Quick disconnect terminal insulator color: blue or yellow
Quick disconnect terminal thickness range: 0.4mm to 0.8mm
Cable glands: PA66 plastic or nickel plated brass

#### Electrical:

Heat shrink tubing shrinkage: 2:1

#### Temperature Rating:

Heat shrink tubing operating temperature: -55°C to +125°C

| PART NUMBER | PRODUCT TYPE | PRODUCT DATA |
|---|---|---|
| ATHT-001 | Hand Tool | View |
| ATHT-001A | Hand Tool | View |
| ATHT-002 | Hand Tool | View |
| ATHT-003 | Hand Tool | View |
| ATHT-004 | Hand Tool | View |
| ATHT-008 | Hand Tool | View |
| ATHT-009 | Hand Tool | View |
| ATHT-010 | Hand Tool | View |
| ATHT-011 | Hand Tool | View |
| ATHT-012 | Hand Tool | View |
| ATHT-014 | Hand Tool | View |
| ATHT-015 | Hand Tool | View |
| ATHT-K3081 | RF Crimp Tool Kit | View |
| CG-M-MX-X | Metal Cable Gland | View |
| CG-M-PGX | Metal Cable Gland | View |
| CG-P-11 | Plastic Cable Gland | View |
| CG-P-13.5 | Plastic Cable Gland | View |
| CG-P-16 | Plastic Cable Gland | View |
| CG-P-21 | Plastic Cable Gland | View |
| CG-P-29 | Plastic Cable Gland | View |
| CG-P-36 | Plastic Cable Gland | View |
| CG-P-42 | Plastic Cable Gland | View |
| CG-P-48 | Plastic Cable Gland | View |

| PART NUMBER | PRODUCT TYPE | PRODUCT DATA |
|---|---|---|
| CG-P-7 | Plastic Cable Gland | View |
| CG-P-9 | Plastic Cable Gland | View |
| CG-P-M10-1.5 | Plastic Cable Gland | View |
| CG-P-M12-1.5 | Plastic Cable Gland | View |
| CG-P-M16 | Plastic Cable Gland | View |
| CG-P-M18-1.5 | Plastic Cable Gland | View |
| CG-P-M20 | Plastic Cable Gland | View |
| CG-P-M22 | Plastic Cable Gland | View |
| CG-P-M25 | Plastic Cable Gland | View |
| CG-P-M28-1.5 | Plastic Cable Gland | View |
| CG-P-M32-1.5 | Plastic Cable Gland | View |
| CG-P-M40-1.5 | Plastic Cable Gland | View |
| CG-P-M50-1.5 | Plastic Cable Gland | View |
| CG-P-M63-1.5 | Plastic Cable Gland | View |
| CG-P-M75-2.0 | Plastic Cable Gland | View |
| CG-P-M8-1.25 | Plastic Cable Gland | View |
| CG-P-M90-2.0 | Plastic Cable Gland | View |
| HST-A-XXX-XX-X-SR31 | Dual Wall Heat Shrink Tubing | View |
| HST-A-XXX-XX-X-SR41 | Dual Wall Heat Shrink Tubing | View |
| HST-B-XXX-RD-X-24KV | High Voltage Heat Shrink Tubing | View |
| HST-B-XXX-RD-X-36KV | High Voltage Heat Shrink Tubing | View |
| HST-M-XXX-BK-XXX-SR21 | Heat Shrink Tubing (Medical Grade) | View |
| HST-XX-XX-X | Heat Shrink Tubing | View |

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