

306/316/356 SERIES

.156" (3.96mm) Contact Spacing



306/316/356 SERIES ORDERING CODE

Example Part Number 306 - 022 - 521 - 178

Series _____
Total Number of Contacts _____
Contact Code _____
Mounting Options _____

Series	Insulator Colour	Card Slot Length
306	Green	Standard Length per MIL-C-21097
316	Green	.020 (0.51) Shorter than Standard
356	Black	Standard Length per MIL-C-21097

Total Number of Contacts ¹	Contact Row
006, 007,...043	Centre Row

Contact Code ²	Description & Tail Size	Tail Length "G"
500	Wire Hole .087 x .015 (2.21 x 0.38)	.282 (7.16)
520	P.C. Tail .046 x .015 (1.17 x 0.38)	.213 (5.41)
521	P.C. Tail .037 x .015 (0.94 x 0.38)	.125 (3.18)

Mounting Options ³	Description
101	No Mounting Lugs
102	.128 (3.25) Dia. Mounting Holes
103	.116 (2.95) I.D. Floating Eyelets
104	.156 (3.96) Dia. Mounting Holes
107	M3-0.5 Metric Threaded Inserts
108	#4-40 Unified Threaded Inserts
158	.468 (11.89) Offset Card Guides
168	.344 (8.74) Offset Card Guides
178	In-Line Card Guides

307/357 SERIES

.156" (3.96mm) Contact Spacing



307/357 SERIES ORDERING CODE

Example Part Number 307 - 044 - 520 - 2 02

Series _____
Total Number of Contacts _____
Contact Code _____
Contact Rows _____
Mounting Options _____

Series	Insulator Colour
307	Green
357	Black

Total Number of Contacts ¹	Contact Rows
006, 007,...044	Single Row
012, 014,...088	Dual Row

Contact Rows	Description
1	Single Row
2	Dual Row

Contact Code ^{2,3,4,5} Description & Tail Size Tail Length "G"

Single Row Contacts - Read One Side of Daughter Board

505	Wire Hole .087 x .013 (2.21 x 0.33)	.282 (7.16)
525	P.C. Tail .046 x .013 (1.17 x 0.33)	.213 (5.41)
527	P.C. Tail .046 x .013 (1.17 x 0.33)	.358 (9.09)
531	P.C. Tail .023 x .013 (0.58 x 0.33)	.213 (5.41)
545	Wire Wrap .046 x .013 (1.17 x 0.33)	.708 (17.98)
547	Wire Wrap .046 x .013 (1.17 x 0.33)	.520 (13.21)
558	90 Degree Bend (Code 545 Contacts)	
559	90 Degree Bend (Code 527 Contacts)	

Single Row Contacts - Read Both Sides of Daughter Board

501	Wire Hole .089 x .014 (2.29 x 0.36)	.213 (5.41)
521	P.C. Tail .046 x .014 (1.17 x 0.36)	.213 (5.41)
541	Wire Wrap .046 x .014 (1.17 x 0.36)	.495 (12.57)
553	90 Degree Bend (Code 521 Contacts)	
554	90 Degree Bend (Code 501 Contacts)	
557	90 Degree Bend (Code 541 Contacts)	

Dual Row Contacts - Read Both Sides of Daughter Board

500	Wire Hole .087 x .013 (2.21 x 0.33)	.282 (7.16)
520	P.C. Tail .046 x .013 (1.17 x 0.33)	.213 (5.41)
522	P.C. Tail .046 x .013 (1.17 x 0.33)	.358 (9.09)
524	P.C. Tail .023 x .013 (0.58 x 0.33)	.213 (5.41)
540	Wire Wrap .046 x .013 (1.17 x 0.33)	.708 (17.98)
542	Wire Wrap .046 x .013 (1.17 x 0.33)	.520 (13.21)
555	Extender Board Bend (Code 500 Contacts)	
556	Extender Board Bend (Code 520 Contacts)	
558	90 Degree Bend (Code 522 and 540 Contacts)	
559	90 Degree Bend (Code 522 and 540 Contacts)	
560	Extender Board Bend (Code 522 Contacts)	

Mounting Options ⁶	Description
01	No Mounting Lugs
02	.128 (3.25) Dia. Mounting Holes
03	.116 (2.95) I.D. Floating Eyelets
04	.156 (3.96) Dia. Mounting Holes
07	M3-0.5 Metric Threaded Inserts
08	#4-40 Unified Threaded Inserts
12	.128 (3.25) Dia. Side Mounting Holes
58	.468 (11.89) Offset Card Guides
68	.344 (8.74) Offset Card Guides
78	In-Line Card Guides

337/387 SERIES

.156" (3.96mm) Contact Spacing



337/387 SERIES ORDERING CODE

Example Part Number **337 - 086 - 524 - 2 04**

Series _____
 Total Number of Contacts _____
 Contact Code _____
 Contact Rows and Insulator Style _____
 Mounting Options _____

Series	Insulator Colour
337	Green
387	Black

Total Number of Contacts ¹	Contact Rows
006, 007,...043	Single Row
012, 014,...086	Dual Row

Contact Code ^{2,3}	Description & Tail Size	Tail Length "G"
500	Wire Hole .050 x .025 (1.27 x 0.64)	.260 (6.60)
520	P.C. Tail .030 x .018 (0.76 x 0.46)	.175 (4.45)
521	P.C. Tail .025 Square (0.64 Square)	.150 (3.81)
523	P.C. Tail .025 Square (0.64 Square)	.390 (9.91)
524	P.C. Tail .018 Square (0.46 Square)	.175 (4.45)
540	Wire Wrap .025 Square (0.64 Square)	.560 (14.22)
541	Wire Wrap .025 Square (0.64 Square)	.750 (19.05)
542	Wire Wrap .025 Square (0.64 Square)	.645 (16.38)
544	Wire Wrap .050 x .025 (1.27 x 0.64)	.750 (19.05)
555	Extender Board Bend (Code 500 Contacts)	
556	Extender Board Bend (Code 520 Contacts)	
558	90 Degree Bend (Code 541 Contacts)	
559	90 Degree Bend (Code 541 Contacts)	
560	Extender Board Bend (Code 523 Contacts)	

Contact Rows and Insulator Style	Description
1	Single Row, Flush Mounting Lugs
2	Dual Row, Flush Mounting Lugs
6	Single Row, .170 (4.32) Offset Lugs
8	Dual Row, .170 (4.32) Offset Lugs

Mounting Options ^{4,5,6}	Description
01	No Mounting Lugs
02	.128 (3.25) Dia. Mounting Holes
03	.116 (2.95) I.D. Floating Eyelets
04	.156 (3.96) Dia. Mounting Holes
07	M3-0.5 Metric Threaded Inserts
08	#4-40 Unified Threaded Inserts
12	.128 (3.25) Dia. Side Mounting Holes
58	.468 (11.89) Offset Card Guides
68	.344 (8.74) Offset Card Guides
78	In-Line Card Guides

345/395 SERIES

.100" (2.54mm) Contact Spacing



345/395 SERIES ORDERING CODE

Example Part Number **345 - 050 - 520 - 2 02**

Series _____
 Total Number of Contacts _____
 Contact Code _____
 Contact Rows and Insulator Style _____
 Mounting Options _____

Series	Insulator Colour
345	Green
395	Black

Total Number of Contacts ¹	Contact Rows
005, 006,...072	Single Row
010, 012,...144	Dual Row

Contact Code ^{2,3}	Description & Tail Size	Tail Length "G"
500	Wire Hole .050 x .025 (1.27 x 0.64)	.260 (6.60)
520	P.C. Tail .030 x .018 (0.76 x 0.46)	.175 (4.45)
521	P.C. Tail .025 Square (0.64 Square)	.150 (3.81)
523	P.C. Tail .025 Square (0.64 Square)	.390 (9.91)
524	P.C. Tail .018 Square (0.46 Square)	.175 (4.45)
540	Wire Wrap .025 Square (0.64 Square)	.560 (14.22)
541	Wire Wrap .025 Square (0.64 Square)	.750 (19.05)
542	Wire Wrap .025 Square (0.64 Square)	.645 (16.38)
544	Wire Wrap .050 x .025 (1.27 x 0.64)	.750 (19.05)
555	Extender Board Bend (Code 500 Contacts)	
556	Extender Board Bend (Code 520 Contacts)	
558	90 Degree Bend (Code 541 Contacts)	
559	90 Degree Bend (Code 541 Contacts)	
560	Extender Board Bend (Code 523 Contacts)	

Contact Rows and Insulator Style	Description
1	Single Row, Flush Mounting Lugs
2	Dual Row, Flush Mounting Lugs
4	Single Row, .110 (2.79) Offset Lugs
5	Dual Row, .110 (2.79) Offset Lugs
6	Single Row, .170 (4.32) Offset Lugs
8	Dual Row, .170 (4.32) Offset Lugs

Mounting Options ^{4,5}	Description
01	No Mounting Lugs
02	.128 (3.25) Dia. Mounting Holes
03	.116 (2.95) I.D. Floating Eyelets
04	.156 (3.96) Dia. Mounting Holes
07	M3-0.5 Metric Threaded Inserts
08	#4-40 Unified Threaded Inserts
12	.128 (3.25) Dia. Side Mounting Holes
58	.468 (11.89) Offset Card Guides
78	In-Line Card Guides 2.750 (69.85) Long
88	In-Line Card Guides 1.250 (31.75) Long

621/622 SERIES

Plug and Receptacle, Right Angle, .318" (8.08mm) Footprint



FEATURES

- Two contact rows with .318" (8.08mm) footprint right-angle bend.
- .109" (2.77mm) contact spacing x .112" (2.82mm) row spacing.
- Plug and receptacle in 9-, 15-, 25- or 37-pin contact sizes.
- Pin and socket contact mating design with PC tail termination.
- Metal shell provides EMI/RFI shielding. Plug shell indents provide grounding and additional mating retention.
- Grounding features include top or bottom ground plates and four-prong boardlock for superior retention to PC board.
- Mounting options for panel mount or connector mating include through-hole, threaded inserts and threaded standoffs.
- D-shaped connector mating outline provides polarization.
- Design based on requirements of MIL-C-24308, EIA-232 and RS-449.

SPECIFICATIONS

- Insulator Material: Thermoplastic polyester, UL94V-0; chemical resistant; colour - black.
- Ferrite Specifications: Attenuation - 20dB MIN @ 30Mhz, 30dB MIN @ 50MHz, and 50dB MIN @ 100Mhz.
- Contact Material: Plug contacts - brass; receptacle contacts - phosphor bronze.
- Contact Plating: Gold over nickel for the mating area; tin/lead plating on contact tails.
- Shell Material: Nickel-plated steel.
- Current Rating: 5 amperes.
- Contact Resistance: 10 milliohms maximum.
- Dielectric Withstanding Voltage: 1000 V AC rms @ sea level.
- Insulation Resistance: 5000 megohms minimum.
- Operating Temperature: -55° to +125° C
- Engagement & Separation Force: 1 to 10 oz. (0.28 to 2.78 N) per contact position.

SERIES

621.....Plug
622.....Receptacle

TOTAL CONTACTS

009, 015, 025, 037.....50 (machined pin only)

CONTACT/PLATING CODE

260.....Gold Flash (Class 3)
560.....10m" (0.25mm) (Class 2)
660.....30m" (0.76mm) (Class 1)
668.....Ferrite Filter

EDAC INTERNAL USE

0.....Indicates generic internal use code

GROUNDING FEATURE

1......120" (3.05mm) dia. through hole top ground
3.....Two-prong boardlocks for .120" (3.05mm) dia. PCB hole
4.....Four-prong boardlocks for .120" (3.05mm) dia. PCB hole

MOUNTING OPTION

0.....#4-40 UNC fixed standoff
1......125" (3.18mm) dia. through-hole
2.....#4-40 UNC threaded insert
3.....#4-40 UNC threaded standoff
5.....#4-40 UNC threaded standoff & lock washer

ORDERING CODE

Series + Total Contacts + Contact/Plating Code + Edac Internal Use +
+ Grounding Feature + Mounting Option = Ordering Code
Example: 621-025-560-0-1-3

633/634 SERIES

Plug and Receptacle, Right Angle, High-Density, .350" (8.89mm) Footprint



FEATURES

- High-density three contact rows with .350" (8.89mm) footprint right angle bend.
- .090" (2.29mm) contact spacing x .078" (1.98mm) row spacing.
- Optional 9th contact recessed by .050" (1.27mm) on 15-pin part, in accordance with VESA Display Data Channel Standard.
- Receptacles and plugs 15-, 26-, 44-, 62- and 78-pin contact sizes.
- Socket contact mating design with PC tail termination.
- Metal shell provides EMI/RFI shielding. Plug shell indents provide grounding and additional mating retention.
- Grounding features include top or bottom ground plates and two- or four-prong boardlock for exceptional retention to PC board.
- Mounting options for panel mount or connector mating include through-hole, threaded inserts and threaded standoffs.
- D-shaped connector mating outline provides polarization design based on requirements of MIL-C-24308, EIA-232 and RS-449.

SPECIFICATIONS

- Insulator Material: Thermoplastic polyester, UL 94V-0; chemical resistant; colour - black or blue.
- Ferrite Specifications: Attenuation - 17dB MIN @ 30Mhz, 25dB MIN @ 50Mhz and 40dB @ 100Mhz.
- Contact Material: receptacle contacts - phosphor bronze.
- Contact Plating: Gold over nickel for the mating area, tin/lead plating on contact tails.
- Shell Material: Tin/lead plated steel.
- Current Rating: 5 amperes.
- Contact Resistance: 10 milliohms maximum.
- Dielectric Withstanding Voltage: 1000V AC rms at sea level.
- Insulation Resistance: 5000 megohms minimum.
- Operating Temperature: -55° to +125° C.
- Engagement and Separation Force: 1 to 10 oz. (0.28 to 2.78 N) per contact position.

SERIES

633.....Plug
634.....Receptacle

TOTAL CONTACTS

015, 026, 044, 062 (078 - Female Only)

PLATING CODE

2.....Gold Flash (Class 3)
5.....10m" (0.25mm) (Class 2)
6.....30m" (0.76mm) (Class 1)

CONTACT CODE

63.....Standard contacts, black plastic
68.....Ferrite filter
73.....9th contact recessed .050" (1.27mm), black insulator
74.....9th contact recessed .050" (1.27mm), blue insulator

EDAC INTERNAL USE

0.....Indicates generic internal use code

GROUNDING FEATURE

1......120" (3.05mm) dia. through-hole top ground
2......120" (3.05mm) dia. through-hole bottom ground (633)
3.....Two-prong boardlocks for .120" (3.05mm) dia. hole
4.....Four-prong boardlocks for .120" (3.05mm) dia. hole
9.....High-temperature four-prong boardlocks

MOUNTING OPTION

0.....#4-40 UNC standoff w/ threaded insert
1......125" (3.18mm) dia. through-hole
2.....#4-40 UNC threaded insert
3.....#4-40 UNC hex standoff w/ threaded insert

ORDERING CODE

Series + Total Contacts + Contact Code + Edac Internal Use +
Grounding Feature + Mounting Option = Ordering Code
Example: 634-015-632-0-4-2

627/628 SERIES (Plastic)

Plug and Receptacle, Vertical, PCB Mount, PLASTIC Body



FEATURES

- Low profile available.
- .109" (2.77mm) contact spacing x .112" (2.82mm) row spacing.
- Plug and receptacle in 9-, 15-, 25-, 37-pin contact sizes.
- Pin and socket contact mating design with PC tail termination.
- Metal shell provides EMI/RFI shielding. Plug shell indents provide grounding and additional mating retention.
- Grounding features include two-prong boardlock for exceptional retention to PC board.
- Mounting options for panel mount or connector mating include through-hole, threaded inserts and threaded standoffs.
- D-shaped connector mating outline provides polarization design based on requirements of MIL-C-24308, EIAARS-232 and RS-449.

SPECIFICATIONS

- Insulator Material: Thermoplastic polyester, UL94V-0; chemical resistant; colour - black.
- Contact Material: Plug contacts - brass; receptacle contacts - phosphor bronze.
- Contact Plating: Gold over nickel for the mating area, tin/lead plating on contact tails.
- Shell Material: Nickel-plated steel (tin/lead optional)
- Current Rating: 5 amperes.
- Contact Resistance: 10 milliohms maximum.
- Dielectric Withstanding Voltage: 1000V AC rms at sea level.
- Insulation Resistance: 5000 megohms minimum.
- Operating Temperature: -55° to +125° C.
- Engagement and Separation Force: 1 to 10 oz. (0.28 to 2.78 N) per contact position.

SERIES

627Plug
628Receptacle

TOTAL CONTACTS

009, 015, 025, 037

PLATING CODE

2Gold Flash (Class 3)
315m" (0.38mm) (Class 2)
630m" (0.76mm) (Class 1)

CONTACT CODE

20PCTail .140" (3.18mm)
21PCTail .165" (4.18mm)

EDAC INTERNAL USE

0Indicates generic internal use code

BODY STYLE

1Plastic .237" (6.02mm) low profile, polyester

MOUNTING OPTION

1125" (3.18mm) dia. through-hole
2#4-40 UNC threaded inserts
3#4-40 UNC threaded standoffs
4#4-40 UNC threaded insert with dip solder prongs
5#4-40 UNC threaded standoff with dip solder prongs
6#4-40 UNC threaded insert with boardlocks
7#4-40 UNC threaded standoff with boardlocks

ORDERING CODE

Series + Total Contacts + Plating Code + Contact Code + Edac Internal Use + Body Style + Mounting Option = Ordering Code
Example: 627-025-2-20-0-1-7

627/628 SERIES (Metal)

Plug and Receptacle, Vertical, PCB Mount, METAL Body



FEATURES

- Both low and high profiles available.
- .109" (2.77mm) contact spacing x .112" (2.82mm) row spacing.
- Plug and receptacle in 9-, 15-, 25-, 37- and 50-pin contact sizes.
- Pin and socket contact mating design with PC tail termination.
- Metal shell provides EMI/RFI shielding. Plug shell indents provide grounding and additional mating retention.
- Grounding features include two-prong boardlock for exceptional retention to PC board.
- Mounting options for panel mount or connector mating include through-hole, threaded inserts and threaded standoffs.
- D-shaped connector mating outline provides polarization design based on requirements of MIL-C-24308, EIAARS-232 and RS-449.

SPECIFICATIONS

- Insulator Material: Thermoplastic polyester, UL94V-0; chemical resistant; colour - black.
- Ferrite Specifications: Attenuation - 20dB MIN @ 30Mhz, 30dB MIN @ 50Mhz and 50db MIN @ 100Mhz.
- Contact Material: Plug contacts - brass; receptacle contacts - phosphor bronze.
- Contact Plating: Gold over nickel for the mating area, tin/lead plating on contact tails.
- Shell Material: Nickel-plated steel (tin/lead optional)
- Current Rating: 5 amperes.
- Contact Resistance: 10 milliohms maximum.
- Dielectric Withstanding Voltage: 1000V AC rms at sea level.
- Insulation Resistance: 5000 megohms minimum.
- Operating Temperature: -55° to +125° C.
- Engagement and Separation Force: 1 to 10 oz. (0.28 to 2.78 N) per contact position.

SERIES

627Plug
628Receptacle

TOTAL CONTACTS

009, 015, 025, 037, 050

PLATING CODE

2Gold Flash (Class 3)
315m" (0.38mm) (Class 2)
630m" (0.76mm) (Class 1)

CONTACT CODE

20PCTail .125" (3.18mm)
21PCTail .165" (4.18mm)
22Solder cup termination
28Ferrite filter

EDAC INTERNAL USE

0Indicates generic internal use code

BODY STYLE

4Metal covered .276" (7.00mm) low profile
5Metal covered .472" (12.00mm) high profile
6Metal covered machined contacts low profile

MOUNTING OPTION

1125" (3.18mm) dia. through-hole
2#4-40 UNC threaded inserts
3#4-40 UNC threaded standoffs
6#4-40 UNC threaded insert with boardlocks
7#4-40 UNC threaded standoff with boardlocks
8#4-40 UNC threaded fixed standoffs

ORDERING CODE

Series + Total Contacts + Plating Code + Contact Code + Edac Internal Use + Body Style + Mounting Option = Ordering Code
Example: 627-025-2-20-0-4-7