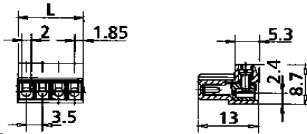


### 3.5mm High Density Pluggable Terminal Block

UL/CSA Recognized Designed to VDE 0110



**Type 169**  
with wire protection



**Description**

High density, low profile connector provides reliable electrical and mechanical connection. Integral coding feature prevents loss of a circuit. Screws are captive in the molding.

**Materials**

**Body:** Polyamide 66, flame resistant and self-extinguishing according to UL 94V-0  
 Temperature range: -40 oF (-40 oC) to + 257 oF (125 oC)  
**Terminal:** Brass, nickel plated  
**Contact:** CuNi18 Zn20, gold plating of the contact area available  
**Screw:** M2, steel, nickel over copper plating optional: brass, nickel plated - consult factory

**Technical Data**

(according to UL/CSA)  
**Voltage:** 250V  
**Pin spacing 3.5mm:** 300V  
**Pin spacing 7mm:** 10A  
**Maximum current:** 28-18AWG  
**Wire range:** 3 lb-in  
**Recommended tightening torque:** 5mm  
**Wire strip length:**

**Part Numbers Standard Style**

Pin Spacing 3.5mm

Circuits	Type 169	Circuits	Type 169	Circuits	Type 169
2	31 169 102	10	31 169 110	18	31 169 118
3	31 169 103	11	31 169 111	19	31 169 119
4	31 169 104	12	31 169 112	20	31 169 120
5	31 169 105	13	31 169 113	21	31 169 121
6	31 169 106	14	31 169 114	22	31 169 122
7	31 169 107	15	31 169 115	23	31 169 123
8	31 169 108	16	31 169 116	24	31 169 124
9	31 169 109	17	31 169 117		

### 3.5mm High Density Headers

**(Mates with above Terminal Block)**

UL/CSA Recognized Designed to VDE 0110



**Type 180**  
horizontal mounting  
round contact pins  $\varnothing$ 1mm



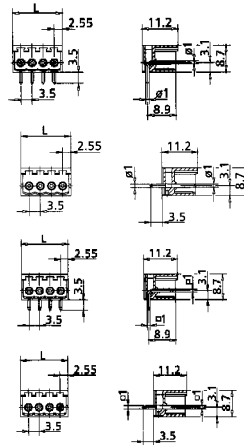
**Type 181**  
vertical mounting  
round contact pins  $\varnothing$ 1mm



**Type 182**  
horizontal mounting  
square contact pins  $\square$ 1mm



**Type 183**  
vertical mounting  
square contact pins  $\square$ 1mm



**Description**

High density centerline header. Headers available in vertical or horizontal mounting for type 169.

The round contact pins of type 180 and type 181 are pressed in a plastic housing.

The square contact pins of type 182 and type 183 are pressed in a plastic housing.

Pin spacing of soldering pins 3.5mm and 7mm.

**Materials**

**Body:** Polyamide 66, flame resistant and self-extinguishing according to UL 94V-0  
 Temperature range: -40 oF (-40 oC) to + 257 oF (125 oC)  
 short time up to 365 oF (185 oC)  
**Contact pin:** Brass, 5um silver plating over 2um nickel plating; tin plating and other gold plating options are available

**Technical Data**

(according to UL/CSA)  
**Voltage:** 300V  
**Pin spacing 3.5mm:** 300V  
**Pin spacing 7mm:** 10A  
**Maximum current:** 28-18AWG  
**Pin diameter:**  $\varnothing$  1.0 mm (round pins)  
 (mating position)  $\square$  1.0 mm (square pins)  
**Pc pin diameter:**  $\varnothing$  1.0 mm (round pins)  
 $\square$  1.0 mm (square pins)  
**Recommended pc hole diameter:** 1.3 mm (round pins)  
 1.5 mm (square pins)  
**Pc pin length:** 3.5mm

**Part Numbers Standard Style**

Pin Spacing 3.5mm

Circuits	Type 180	Circuits	Type 180	Circuits	Type 180
2	31 180 102	10	31 180 110	18	31 180 118
3	31 180 103	11	31 180 111	19	31 180 119
4	31 180 104	12	31 180 112	20	31 180 120
5	31 180 105	13	31 180 113	21	31 180 121
6	31 180 106	14	31 180 114	22	31 180 122
7	31 180 107	15	31 180 115	23	31 180 123
8	31 180 108	16	31 180 116	24	31 180 124
9	31 180 109	17	31 180 117		

Circuits	Type 181	Circuits	Type 181	Circuits	Type 181
2	31 181 102	10	31 181 110	18	31 181 118
3	31 181 103	11	31 181 111	19	31 181 119
4	31 181 104	12	31 181 112	20	31 181 120
5	31 181 105	13	31 181 113	21	31 181 121
6	31 181 106	14	31 181 114	22	31 181 122
7	31 181 107	15	31 181 115	23	31 181 123
8	31 181 108	16	31 181 116	24	31 181 124
9	31 181 109	17	31 181 117		

Circuits	Type 182	Circuits	Type 182	Circuits	Type 182
2	31 182 102	10	31 182 110	18	31 182 118
3	31 182 103	11	31 182 111	19	31 182 119
4	31 182 104	12	31 182 112	20	31 182 120
5	31 182 105	13	31 182 113	21	31 182 121
6	31 182 106	14	31 182 114	22	31 182 122
7	31 182 107	15	31 182 115	23	31 182 123
8	31 182 108	16	31 182 116	24	31 182 124
9	31 182 109	17	31 182 117		

Circuits	Type 183	Circuits	Type 183	Circuits	Type 183
2	31 183 102	10	31 183 110	18	31 183 118
3	31 183 103	11	31 183 111	19	31 183 119
4	31 183 104	12	31 183 112	20	31 183 120
5	31 183 105	13	31 183 113	21	31 183 121
6	31 183 106	14	31 183 114	22	31 183 122
7	31 183 107	15	31 183 115	23	31 183 123
8	31 183 108	16	31 183 116	24	31 183 124
9	31 183 109	17	31 183 117		