

Screw Connectors for Printed Circuit Boards

180-A-111 | 5.00 mm (0.197 in) Spacing - 1-12 poles

PICTURES



180-A-111

TECHNICAL INFORMATION

Description

Wire entrance parallel to PC Board

Horizontal version

Screw and wire entrance on the same face.

Technical Data

Center to Center Spacing: 5.000 mm (0.197 in)

Nominal Cross Section: 2.5 mm² (3875 mils²)

Wire Stripping Length: 9.000 mm (0.355 in)

Recommended Hole Diameter in PC Board: 1.400 mm (0.055 in)

Bill of Materials

Molding : Polyamide, Self extinguishing UL 94, V-0

Color : Grey

Temperature limits :

Short Time : 140°C (284°F)

Continuous : 105°C (221°F)

Low Limit : -40°C (-40°F)

Comparative Tracking Index : CTI ? 600 V

Oxygen Index Rating : 33 %

Clamp and Pressure Plate: Zinc plated blue passivated, steel substrate

Internal Bus with Solder Pins: Tin plated copper alloy

Screw: Slotted head, zinc plated blue passivated, steel substrate M2.5



Solder Pin: 1.0 mm x 0.8 (0.04 in. x 0.03 in.)

Application

Excellent for installation within an enclosure enabling access to wire entry and screw from the outside. The profile of the block makes a neat tight fit with the enclosure walls. An offset of 0.5 mm (0.02 in.) deep by 4 mm (0.16 in.) wide, above the screw entry can be mated with correctly sized opening in an enclosure. The opening can be about 14.5 mm (0.57 in.) high by the width of the terminal block, this allows access to the face of the block and its screws and wire entries.

APPROVAL INFORMATION

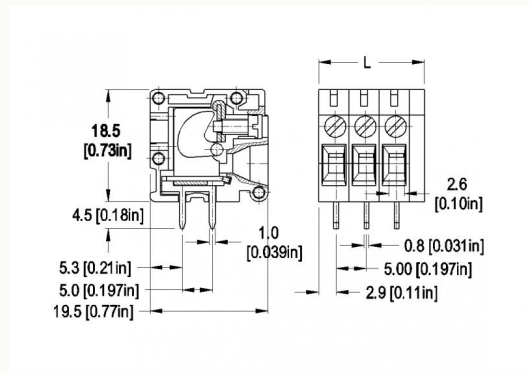
UL File No. E69841 | CSA File No. LR24322

Type	Current (A)	Voltage (V)	Application Group	AWG	Screw Tightening Torque
 180-A-111 5.0 mm	20	300	B	24-12	3.5 lbfin
	10	300	D	24-12	3.5 lbfin
 180-A-111 5.0 mm	20	300	B	24-12	0.4 lbfin
	10	300	D, E	24-12	0.4 lbfin

International Approval Information

Rated Impulse Withstand Voltage : 2500 V

TECHNICAL DRAWING



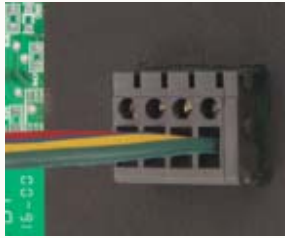
Description :

Length of Connector (L)

$L = (\text{No. of Poles} \times \text{Center to Center Spacing}) + 2.5 \text{ mm}$

SECTION A - SERIES 18**Terminal Blocks for Printed Circuit Boards**

Series 18 (5.0 mm) / 182 (7.5 mm) metric spacing is now joined by the new inch versions 181 (0.2 in.) and 183 (0.3 in.). The Series 18 uses the elevator-style clamping mechanism, which is very well accepted in the terminal block industry for its excellent contact qualities and resistance to vibration.



These screw connectors offer excellent accessibility when space restrictions present connection problems the wire entrance is in line with screwdriver access. Dual PCB solder pins provide a more stable platform with higher torque absorption during the tightening process without damaging the solder bond.

Although the blocks can be assembled to any desired length, WECO strongly recommends a maximum of 12 positions.

Each product has a "How To Order" area as well as a complete listing of UL and CSA approval specifications, available options and accessories.