

## Plug-in Screw Connector System for Printed Circuit Boards

950-NLFL-DS | 5.00 mm (0.197 in) Spacing - 2-12 poles

### PICTURES



950-NLFL-DS



950-NLFL & 971-SLK

### TECHNICAL INFORMATION

#### Description

This two piece connector was designed for the HVAC industry, and allows external wiring to be connected to type 950-NLFL-DS which is mounted to a slot in the base plate by means of a locking foot. The cover is equipped with type 971-SLK pinstrip which is soldered to a printed circuit board. Contact is made when the cover and base plate are assembled.

Plug

With locking foot.

This product can be assembled to the baseplate maintaining 5 mm center-to-center spacing. Thus any number of poles can end-to-end stack.

#### Technical Data

**Center to Center Spacing:** 5.000 mm (0.197 in)

**Nominal Cross Section:** 1.5 mm<sup>2</sup> (2325 mils<sup>2</sup>)

**Wire Stripping Length:** 6.000 mm (0.236 in)

#### Bill of Materials

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

**Color :** Black

**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 :** 32 %

**Terminal Body:** Nickel plated copper alloy

: Tin plated copper alloy



**Screw:** Slotted head, zinc plated blue passivated, steel substrate M2.6

#### Application

For information and instructions on the design of the footprint and cutouts for the base design please contact WECO. For the design of the interaction between the PCB mounted pinstrip, the cover and the baseplate mounted plug please contact WECO.

## APPROVAL INFORMATION

UL File No. E69841 | CSA File No. LR24322

Type	Current (A)	Voltage (V)	Application Group	AWG	Screw Tightening Torque
 950-NLFL-DS 5.0 mm	10	300	B	26-14	3.5 lbfin
 950-NLFL-DS 5.0 mm	10	300	B	26-14	0.4 lbfin

### International Approval Information

Rated Impulse Withstand Voltage : 2500 V

## PLUGGING PARTS

Plug-In Direction Perpendicular to PCB and Wire Entrance Parallel to PCB



**TYPE 971-SLK-CPL**  
5.00 mm spacing - 2-12 poles



**TYPE 971-SLK-THR**  
5.00 mm spacing - 2-12 poles



**TYPE 971-SLR**  
5.00 mm spacing - 2-24 poles



**TYPE 971-SLR-SMD-1.1**  
5.00 mm spacing - 2-12 poles



**TYPE 971-SLR-THR**  
5.00 mm spacing - 2-12 poles



**TYPE 971-SLR-THR-1.1**  
5.00 mm spacing - 2-12 poles



**TYPE 971-SLR-THR-1.3**  
5.00 mm spacing - 2-12 poles



**TYPE 971-SLS**  
5.00 mm spacing - 02-64 poles

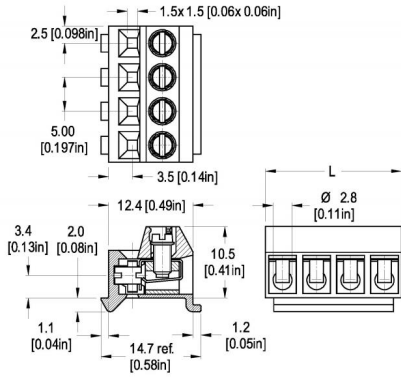


**TYPE 971-SLT-SMD**  
5.00 mm spacing - 2-12 poles



**TYPE 971-SLW**  
5.00 mm spacing - 02-64 poles

## TECHNICAL DRAWING



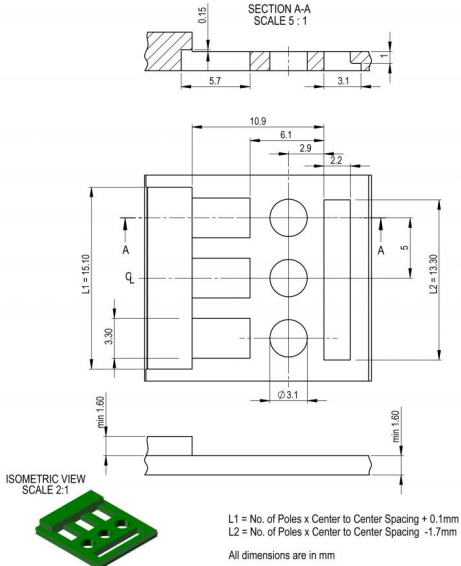
### Description :

Length of Connector (L)

L = No. of Poles x Center to Center Spacing

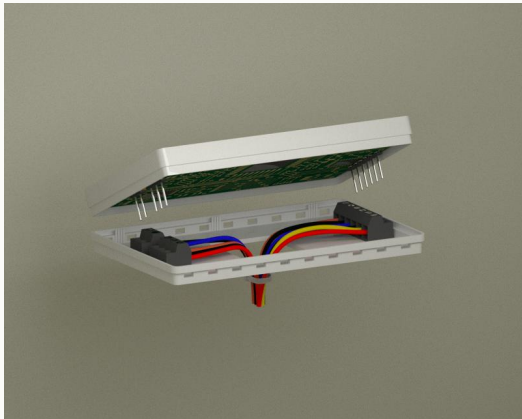
## ILLUSTRATIONS

RECOMMENDED BASE PLATE LAYOUT WITH TEST HOLES FOR 950-NLFL SERIES



**Description :**

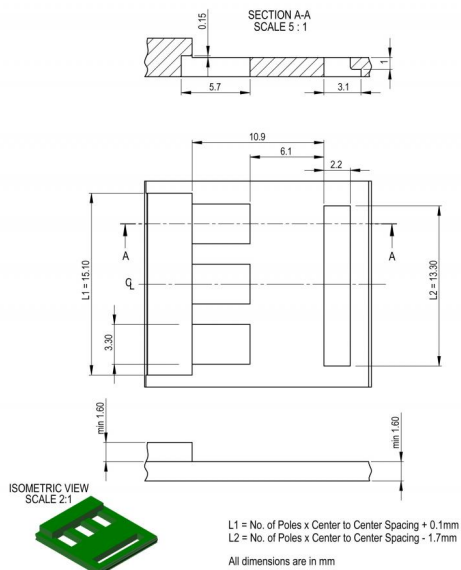
RECOMMENDED BASE PLATE LAYOUT WITH TEST HOLES FOR 950-NLFL SERIES



**Description :**

950-NLFL in Thermostat

RECOMMENDED BASE PLATE LAYOUT WITHOUT TEST HOLES FOR 950-NLFL SERIES

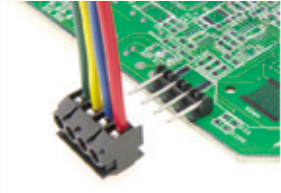


**Description :**

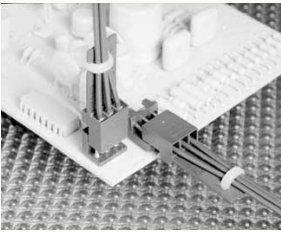
RECOMMENDED BASE PLATE LAYOUT WITHOUT TEST HOLES FOR 950-NLFL SERIES

## SECTION A - SERIES 93-FL AND SERIES 95-FL

### Terminal Blocks for Printed Circuit Boards



These two-part plug and pinstrip combinations provide a small footprint, and low-profile design when ease of service, manufacturing and testing are needed. The two parts are secured with a specially designed contact spring, which ensures proper electrical contact and resistance to vibration. The two-piece design reduces maintenance and servicing costs in the field it saves time and reduces the problem of inserting replacement wires under less than ideal field conditions.



Types 930-FL, 930-HSL and 931-HFL with 3.5 mm (0.138 in.) spacing and the type 950-FL-DS with 5.0 mm (0.197 in.) spacing were designed to meet industry standards.

The 950-TFL-DS type was designed as a dovetail block with 2, 3 and 8 poles per block the dovetail system provides the flexibility to assemble the designer with the needed number of positions while maintaining center-to-center spacing. The dovetail system greatly reduces inventory and speeds up delivery.

A variety of pinstrips can mate securely with the plugs to provide an effective and rapid connection system. The 3.5 mm 931-SLS is available with different pin lengths. The pins are inserted in pinstrips made of fiberglass-filled polybutylene terephthalate (PBTP) to provide better heat resistance during the wave soldering process.

The plug fits flush with the circuit board surface and provides a visual indication that the parts have been properly mated. Pinstrip pins are available in different lengths these longer pin lengths allow two blocks to be connected on a common pin, one on top of the other.

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