




## 2.5 mm Signal Double Lock (2.5 SDL) Connectors (Wire-to-Board and Wire-to-Wire)

### Product Facts

- Connector for signal circuits with one row of contacts on 2.5 mm centerline
- Wire-to-board and wire-to-wire connectors, consisting of plug and cap housings for wire termination and PC board-mount post headers
- Mounted to plug and cap housings for wire application, double lock plate provides for positive loading of contacts in the housing. It also helps contacts mate completely
- Double lock plate is contained within the plug and cap housing completely, which provides neat overall appearance
- Accepts 26-20 AWG wire (e.g. UL 1007, 1061, 1571, etc.) with insulation diameters of up to 1.8 mm
- PC board-mount post header is available in two styles: standard profile and high profile
- High-profile post header has locking feature at location fit to resin coating, which is applied onto the board for waterproof protection as in home appliances. It does not hamper mating and locking of post header with plug housing
- Locking structure is inner-lock type and has a clean surface
- Solder tail section of post header is provided with kinks to retain the header firmly on PC board during soldering
- Radial tape-mounted version of post header is also available that is applicable to radial mounting machines
- Recognized under the Component Program  of Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association,  File No. LR7189
- VDE Approved, File No.  B 04 11 39175013



2.5 mm Signal Double Lock Connectors (2.5 SDL) are 2.5 mm centerline, compact, one-row connectors for signal circuits.

With contacts on 2.5 mm centerline, both wire-to-wire and wire-to-board connectors are available.

The connectors consist of plug and cap housings for wire termination, double lock plates for plug and cap housings, crimp snap-in contacts, and a PC board-mount post header. A double lock plate is available for both plug and wire-to-wire cap housing to provide for positive loading. It helps prevent contacts from coming off or mating halfway. The plate is contained within the plug and cap housing completely. The plug and cap housing can be used without a double lock plate.

The connector accepts 26-20 AWG wire (e.g. UL 1007, 1061, 1571, etc.) with insu-

lation diameters of up to 1.8 mm.

The PC board-mount post header is available in two styles: standard profile and high profile.

The high-profile type connectors can be used for home appliances, which require waterproof protection. It does not hamper mating and locking of the post header with the plug housing, even if the board has resin coating on it.

The locking structure is inner-lock type and has a clean surface.

The solder tail of the loose-piece post header has kinks to secure the connector on the PC board until it is soldered.

Radial tape-mounted version of post header is also available and this is applicable to radial mounting machines.

### Performance Characteristics

**Voltage Rating**—50 VAC/DC

**Current Rating**—3 A

**Overall Resistance**—  
10 mΩ max. (initial)  
20 mΩ max. (final)

**Insulation Resistance**—  
500 Ω (500 VDC)

**Dielectric Withstanding Voltage**—  
1,100 VAC, one minute

**Contact Resistance**—20 mΩ max.

**Operating Temperature**—  
-30° ~ +105°C  
(The upper limit includes temperature rise from power carrying)

**Applicable Wire**—26-20 AWG (UL 1007, 1061, 1571)

**Wire Insulation Range**—  
0.93~ 1.8 mm

**PC Board Thickness**—1.6 mm

### Technical Documents

**Product Specification**

108-5459

**Application Specification**

114-5203

**Note:** Dimensions shown are metric.

**2.5 mm Signal Double Lock (2.5 SDL) Connectors**  
**(Wire-to-Board and Wire-to-Wire)** (Continued)

**Quick Reference Chart for Mating Part Numbers**

No. of Pos.	Plug Connector Part No. (Wire Side)		Mating Connectors (PC Board Mount & Wire Side)			
	Housing	Double Lock Plate	Post Header Part No.		Cap Connector Part No.	
			Standard-Profile Type*	High-Profile Type	Cap Housing	Double Lock Plate
2	917686-1	917698-1	917780-1	917722-1	316086-1	917698-1
3	917687-1	917699-1	917781-1	917723-1	316087-1	917699-1
4	917688-1	917700-1	917782-1	917724-1	316088-1	917700-1
5	917689-1	917701-1	917783-1	917725-1	316089-1	917701-1
6	917690-1	917702-1	917784-1	917726-1	316090-1	917702-1
7	917691-1	917703-1	917785-1	917727-1	316091-1	917703-1
8	917692-1	917704-1	917786-1	917728-1	316092-1	917704-1
9	917693-1	917705-1	917787-1	917729-1	—	917705-1
10	917694-1	917706-1	917788-1	917730-1	316094-1	917706-1
11	917695-1	917707-1	917789-1	917731-1	—	917707-1
12	917696-1	917708-1	917790-1	917732-1	—	917708-1
13	917697-1	917709-1	917791-1	917733-1	—	917709-1

\*Included in Standard-Profile Post Header line are Radial Tape-Mounted version (2 to 8 positions).  
Refer to appropriate description in the catalog.

**Note:** All part numbers are RoHS Compliant.

**Product Family List (Including Production Plans)**

Description	Number of Positions												
	2	3	4	5	6	7	8	9	10	11	12	13	
Plug Housing	●	●	●	●	●	●	●	●	●	●	●	●	
Vertical Board Mount Post Header	Standard-Profile Type		Loose Piece										
	High-Profile Type		Radial Tape-Mounted										
Cap Housing	Standard-Profile Type		Loose Piece										
	High-Profile Type		Radial Tape-Mounted										
Double Lock Plate	●	●	●	●	●	●	●	●	●	●	●	●	
Horizontal Board Mount Post Header	○	○	○	○	○	○	○	○	○	○	○	○	
Horizontal Mount Post Header (Radial Tape-Mounted)	○	○	○	○	○	○	○	—	—	—	—	—	

**Note:** ● indicates products currently available; ○ indicates products planned for production.

**Note:** Dimensions shown are metric.

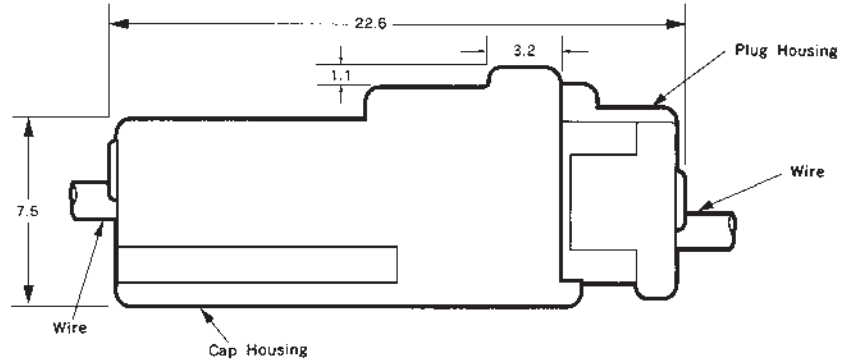
**2.5 mm Signal Double Lock (2.5 SDL) Connectors  
(Wire-to-Board and Wire-to-Wire) (Continued)**

High Density

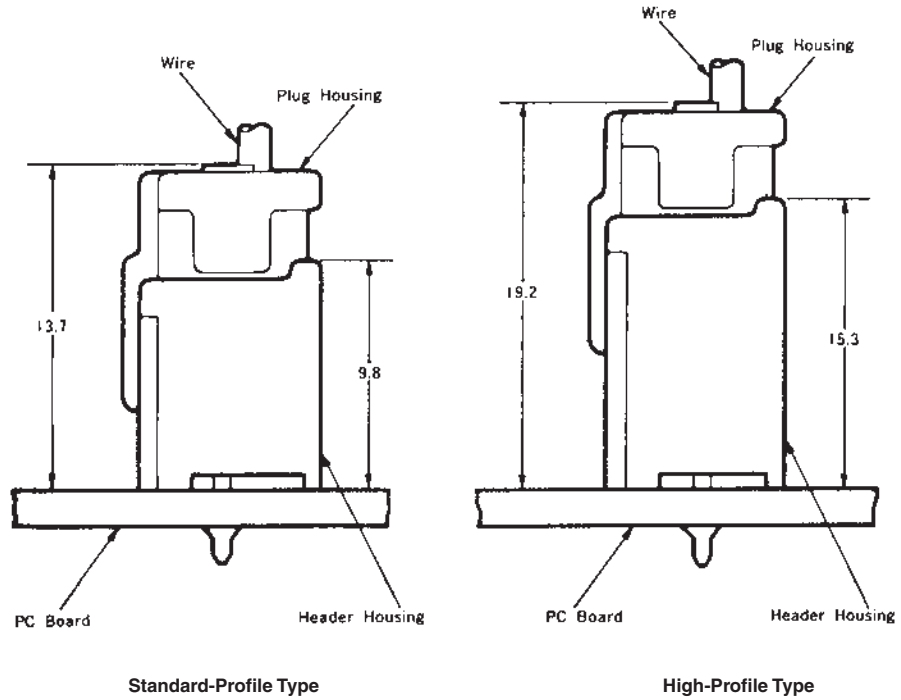
2.5 mm Signal Double Lock  
.098 [2.50] Centerline

**Mating Configurations**

**Wire-to-Wire Connections**



**Wire-to-PC Board Connections**



**Note:** Dimensions shown are metric.