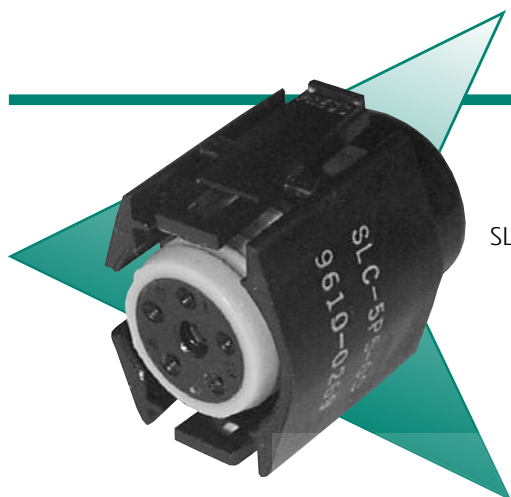


Slide Lock Connector



SLC Slide Lock Circular environmental connectors are designed to meet the most demanding requirements of under-the-hood applications. These connectors are very easy to assemble and maintain. Extremely user friendly, these connector feature an audible and tactile feedback and can be unmated simply by depressing the slide locks and pulling back on the connector body. The contacts will handle up to five amps continuous at fully rated temperature range -40°C to +125°C and can handle wire size from 20 AWG to 16 AWG.

Applications

- Engine Electronics
- Instrumentation
- Inline Connections
- Sensors

Features

High Quality Circular Connector

with silicone mating, interfacial and wire seals that prevent even the harshest of contaminants from entering the connectors.

Shared Tooling

SLC connectors use the same proven contact as SLE and CLC connectors and are assembled using the same crimping and low cost extraction tools.

Convertible Mounting

Simple snap-on mounting plates allow users to convert from inline connections to wall mounting, minimizing inventoried components.

Strong Connector Slide Locks

Slide locks are located at either side of the SLC connectors. These locks are molded right into the connector bodies and lock the connectors together when mated. To unmate just depress the slide locks simultaneously and pull the connectors apart.

Technical Specifications

MATERIALS & FINISHES

Shell	High performance thermoplastic body, silicone wire seals
Contacts	Copper alloy
Plating	Selective gold over nickel plating on mating surface, tin/lead over nickel plating on wire crimp area.

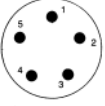
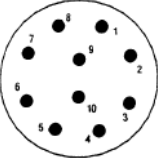
ELECTRICAL DATA

Dielectric Withstanding Voltage	1000 Vac rms at sea level
Current Rating	5 Amps continuous at 125°C
Wire Range Sizes	20-16 AWG
Contact Resistance	10 milliohms maximum
Insulation Resistance	20 megohms minimum (USCAR)

MECHANICAL

Operating Temperature	-40°C to 125°C (-40°F to 257°F)
Sealing	2-12 inches of 5% salt solution for 24 hours
Wire Sealing Range	.095" - .120" (2.42mm - 3.05mm)
Insulation Strip Length	.210" - .220" (5.33mm - 5.59mm)
Mating Life	25 cycles minimum
Salt Spray	5% solution 96 hours
Heat	125°C +/- 3° 1000 hours
Chemical Resistance	Resistant to most common automotive contaminants (see test data)
Vibration	10.2 grms 20 hours min. (see test data)
Shock	100 g's 18 shocks for 6 milliseconds
Contact Type	Crimp using automatic, semi-automatic or hand tooling, printed circuit
Number of Circuits	5 to 10
Contact Insertion	From rear with no insertion tool needed
Contact Removal	From rear with low cost hand tool
Contact Retention	25 lbs. (111N) minimum
Polarization	Keys and keyways

How To Order

				
Number of Circuits (Mating View of Plug)	Plugs For Sockets	Receptacles		
		Snap Thru Crimp	Crimp++ For Pins	PCB
5 	SLC5P500 098532-0000	SLC5T500 098533-0000	SLC5R500 098530-0000	SLC5B500 098531-000
			 Square Flange Plate 066-9504-000	
10 	SLC10P500 098532-0002	SLC10T500 098533-0002	SLC10R500 098530-0002	SLC10B500 098531-002
			 Square Flange Plate 066-9504-001	

Note a 13 Amp version using large contacts is available for most styles. Please call to check availability.

++ A push mount is available for single hole mount into a .250" (6.35mm) diameter hole and panel thickness up to .020" (.51mm) Part # **980-0008-279**



Contacts

16-20 AWG	Pins For Receptacles	Sockets For Plugs	Crimp Tool	Strip Length	Wire Sealing Range	Wire Hole Filler	Extraction Tool
Loose	030-2464-007 	030-2480-000  030-2480-007 Hooded	112108-0007 			225-0093-000 	274-7068-001 
Reel of 4500 pcs.	110238-0446 	110238-0488  110238-1016 Hooded	Automatic/ Semi-Automatic Please Call	.210 - .220 (5.33-5.99mm)	.095 - .130 (2.42-3.30mm)		323-9519-000 Replacement Tip

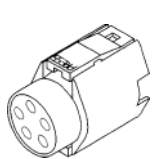
Wire Gauge	Wire Strip Length	Wire Sealing Range	Crimp Tensile Lbs. Min.	Wire Crimp Height	Wire Crimp Width Ref.	Insulation Crimp Height Max.	Insulation Crimp Width Max.
16	.210-.220 (5.33mm- 5.59mm)	.078-.130 (1.98mm- 3.30mm)	35	.064"	.082"	.110"	.115"
18			25	.056"	.080"	.105"	.110"
20			20	.054"			

Dimensions

Plug, In-line (Type P)



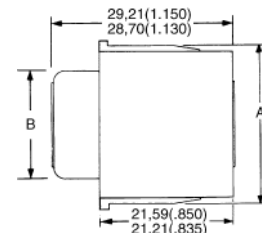
Front-Face View
5 Cavity Housing



Side View
Plug Assembly



Front-Face View
10 Cavity Housing

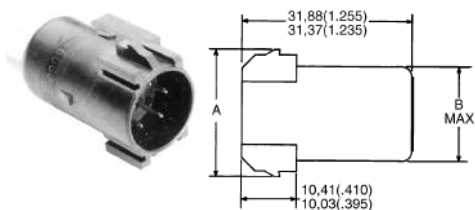


Housing Size	Rating	Part Number	Description	A	B
5	5 Amp	098532-0011	SLC5P500	27,81 (1.095)	18,03 (.710)
10	5 Amp	098532-0012	SLC10P500	34,92 (1.375)	25,15 (.990)

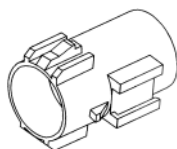
All dimensions are in mm(inches) unless otherwise indicated.

Dimensions

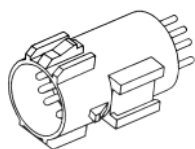
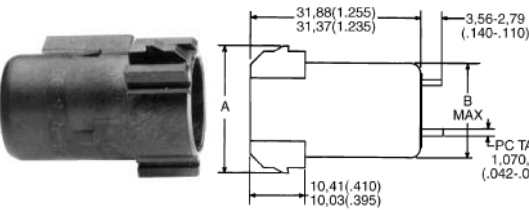
Receptacle, In-line (Type R & B)



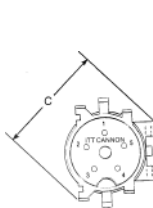
• For square flange see below.



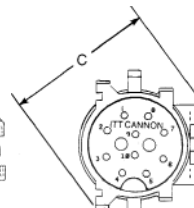
Side View
Receptacle
Assembly



Side View
In-line Receptacle
with PCB Contacts

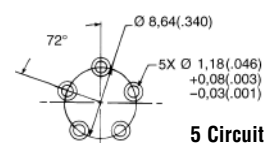


Front-Face View
5 Cavity Housing

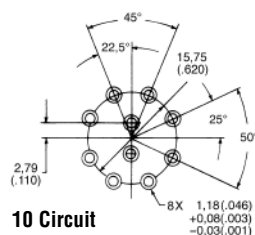


Front-Face View
10 Cavity Housing

Recommended PC Board Layout



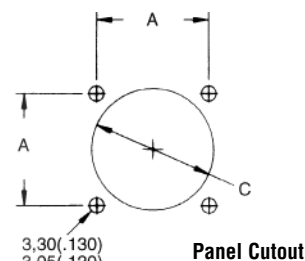
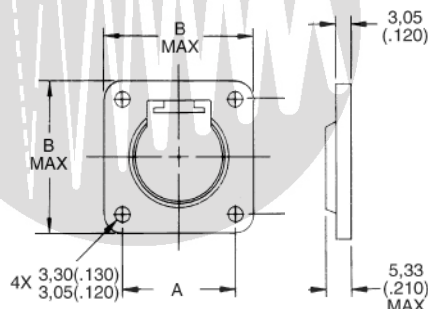
5 Circuit



10 Circuit

Housing Size	Crimp		PCB		A	B	C Ref.
	Part Number	Description	Part Number	Description			
5	098530-0000	SLC-5R5-00	098531-0000	SLC-5B5-00	24,13 (.950)	18,03 (.710)	24,38 (.960)
10	098530-0002	SLC-10R5-00	098531-0002	SLC-10B5-00	31,24 (1.230)	25,15 (.990)	31,62 (1.245)

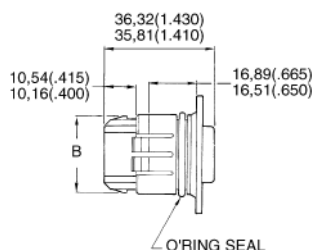
Square Flange for R and B type connectors (shown above)



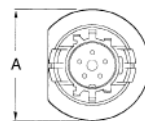
Panel Cutout

Materials and Finishes	Housing	Part Number	A	B Max	C
Material: Thermoplastic	5	066-9504-000	23,37 (.920)	31,24 (1.230)	32,50 - 31,75 (1.280 - 1.250)
Color: Black	10	066-9504-001	28,45 (1.120)	36,32 (1.430)	25,40 - 26,64 (1.000 - .970)

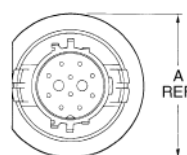
Snap-Thru Receptacle (Type T)



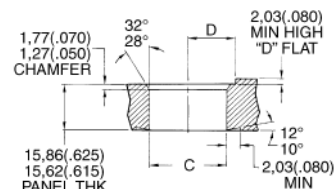
Side View



Front-Face View
5 Position



Front-Face View
10 Position



Panel Section View

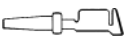
Housing Size	Part Number	Description	A	B	C	D
5	098533-0000	SLC-5T5-00	37,21 (1.465)	24,13 (.950)	25,60 (1.008)	15,62 (.615)
10	098533-0002	SLC-10T5-00	47,62 (1.875)	31,24 (1.230)	35,05 (1.380)	20,19 (.795)

All dimensions are in mm(inches) unless otherwise indicated.

For price & delivery: 800-642-8750 • For tech support: 800-523-0727 • www.PeiGenesis.com

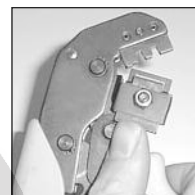
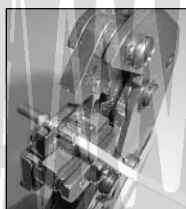
Specifications subject to change.

Contacts & Tools

16-20 AWG	Pins For Receptacles	Sockets For Plugs	Crimp Tool	Strip Length	Wire Sealing Range	Wire Hole Filler	Extraction Tool
Loose	030-2464-007 	030-2480-000  030-2480-007 Hooded	112108-0007 	 .210 - .220 (5.33-5.99mm)	 .095 - .130 (2.42-3.30mm)	225-0093-000 	274-7068-001 
Reel of 4500 pcs.	110238-0446 	110238-0488  110238-1016 Hooded	Automatic/ Semi-Automatic Please Call				323-9519-000 Replacement Tip

Crimping

1. Squeeze handles until tool has gone through a complete cycle and opens easily.
2. Select the proper cavity for the wire size to be crimped.
3. Using your thumb or forefinger, raise the spring-loaded locator on the back of the lower jaw by pushing up.
4. While the locator is in the up position, place the contact into the front of the crimp tool (crimp side up) in the proper crimp cavity (16 AWG or 20 AWG).
5. Release the locator. The locator should rest comfortably in the indent in the contact just above the crimp area.
6. Insert the stripped wire into the crimp area until it bottoms.
7. Firmly squeeze the handle crimp jaw ratchet will release.
8. Using your thumb or forefinger, raise the springloaded locator and remove the crimped contact and wire.

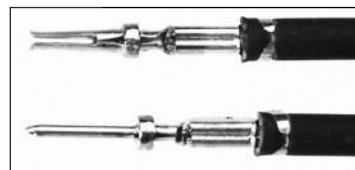


Insertion



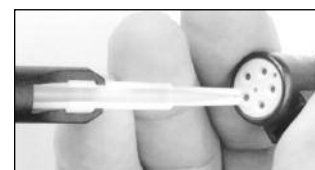
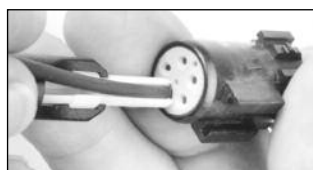
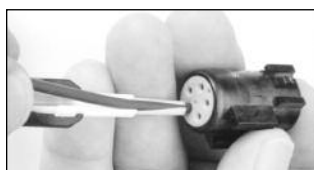
1. Move to the rear of the connector so that the contact cavities can be identified.
2. Insert a crimp terminated assembly into a selected cavity.
3. Continue the forward movement until an audible snap can be felt and heard. Slight pull in the opposite direction will confirm complete insertion.

Crimp Inspection



1. Note that there are no un-terminated wire strands, and that some strand ends can be seen at the forward edge of the crimp. Also note the insulation is gripped by the smaller secondary crimp. Distortion is at a minimum, both axially and laterally – no sharp edges. Enlargement of micro section allows for final judgement of crimp quality. This test is recommended whenever new tools or new types of wire are used.

Extraction



1. Open the CET - SLC extraction tool and place it over the insulation of the wire.
2. Using a straight motion forward, insert the tool along the wire until it bottoms against the connector. (Do not use a screwing motion - damage will result.)
3. While the CET - SLC is bottomed, simply pull the wire/contact assembly out.
4. Remove the CET - SLC. Extraction is complete.