

ITT Cannon SLC Series Snap Lock Circular Connectors



HARSH-ENVIRONMENT SNAP LOCK CIRCULAR CONNECTORS

The ITT Cannon Snap Lock Environmental series (SLC) is an environmentally-sealed, circular connector created for printed circuit board (PCB), cable-to-cable or bulkhead applications. The SLC connector series is environmentally-sealed against sand and dust and is designed for use under-the-hood, withstanding harsh off-road contaminants, including oil and antifreeze. SLC connectors are user-friendly and easy to assemble, with audible and tactile feedback. SLC connector contacts will handle up to 5 amps continuous at a fully-rated temperature range of -40°C to +125°C. The SLC series is available as a 5 pin connector and a 10 pin connector. For full details on ITT Cannon SLC series connectors, see the product specifications below.

APPLICATIONS

- Engine electronics
- Instrumentation
- Inline connections
- Sensors

FEATURES

HIGH-QUALITY CIRCULAR CONNECTOR With silicone mating, interfacial and wire seals that resist even the harshest of contaminants.

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 SNAP LOCKS Snap locks are located at either side of the SLC connectors. These locks are molded into the connector bodies and lock the connectors together when mated. To unmate, depress the snap locks simultaneously and pull the connectors apart.

TECH SPECS

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 megaohms minimum (USCAR)

MECHANICAL DATA

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
Vibration	10.2 grms 20 hours minimum
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