

Amphenol®



Tru-Loc® Rugged Environment Connector featuring RADSOK® Contacts

Amphenol Industrial Operations offers the Tru-Loc connector series, a trusted connection solution featuring 1.5 mm socket contacts with Amphenol's exclusive RADSOK® contact technology. Designed for demanding environments like diesel engine valve covers and high-vibration sensor applications, Tru-Loc delivers reliable performance under extreme conditions.

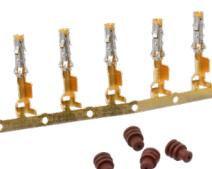
Built with a durable thermoplastic plug body, a secure secondary latch, and a robust fluoroelastomer main joint seal resistant to diesel fuel and other harsh fluids, the Tru-Loc series includes 2-way, 4-way, and 6-way inline plugs and receptacles. Our engineering team can also customize Tru-Loc connectors to interface with devices, sensors, fuel injectors, splitters, and pass-through connectors. Special backshells for the 6-way series and temperature resistance up to 150°C are available upon request.

Fully RoHS compliant, the Tru-Loc series achieves an IP67 seal when mated and is rated for high-vibration environments up to 32 Grms, providing a robust solution for the toughest industrial applications.

Features:

- 2, 4, or 6 pin connector with 1.5mm RADSOK® featured contacts
- Plug body with secondary latch
- Fluoroelastomer main joint seal and silicone rubber wire seals to support IP67 rating
- Dielectric withstanding voltage is 1600 Vac RMS
- 13 Amp current rating
- Insulation resistance can meet 100 MΩ
- Matting force less than 70N
- Contact retention between 60~80N
- Operating temperature can meet -40°C to +125°C or +150°C (depending on PN); 100 cycles, 1 hour per cycle
- Durability is 20 mating cycles

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Mechanical Specifications		Electrical Specifications		
Connector Mating Force	<70 N (15.7 lb)	Dielectric Withstanding Voltage (Test Voltage)	1600 Vac RMS	
Contact Retention	Primary Only: 80 N (18.0 lb) Secondary Only: 60 N (13.5 lb)	Current Rating	13 amp (DC) (16 AWG Cable)	
Vibration	32 g RMS	Insulation Resistance	100 MΩ	
Operating Temperature Range	-40°/+125°C or +150°C depending on PN; 100 cycles, 1 hour per cycle	Material Specification		
Ingress Protection	IP67	Plug with RADSOK® Socket Contacts	Plug Body Nylon	
Durability (Mating Cycle)	20 cycles		Wire Seal Silicone	
 			Main Joint Seal Fluoroelastomer	
			Socket Contact Copper Alloy w/ Stainless Steel Hood	
		Receptacle with Pin Contacts	Receptacle Body Nylon	
			Pin Contact Copper Alloy	
Part Number	Description	Additional Information		
10-838275-000	2way Plug (Plug Body, Locking Collar, and Main Joint Seal)	125°C		
10-838275-002	2way Plug (Plug Body, Locking Collar, and Main Joint Seal)	150°C		
10-707003-002	4way Plug (Plug Body, Locking Collar, and Main Joint Seal)	150°C		
10-707508-02X(X: A,B,C,D)	6way Plug (Plug Body, Locking Collar, and Main Joint Seal)	4 indexes available, 150°C		
10-707516-001	2way receptacle	150°C		
10-707517-001	4way receptacle	150°C		
10-707509-00X(X: A,B,C,D)	6way receptacle	4 indexes available, 150°C		
10-838137-00D	Wire seal (silicone)	To be used with insulated wires with insulation between 1.8-2.5 mm		
10-838137-01D	Wire seal (silicone)	To be used with insulated wires with insulation between 1.2-1.8 mm		
10-730605-002	Stamped and formed female socket, Au+PdNi plating	Crimps to wire from 0.8-1.3 sq. mm		
10-707515-002	Stamped and formed male pin, Au+ PdNi plating	Crimps to wire from 0.8-1.3 sq. mm		
10-707515-0M2	Machined male pin, Au+PdNi plating	Crimps to wire from 0.8-1.3 sq. mm		
10-730179-002	Stamped and formed female socket, Au+PdNi plating	Crimps to wire from 0.5-0.8 sq. mm		
10-730764-002	Stamped and formed male pin, Au+ PdNi plating	Crimps to wire from 0.5-0.8 sq. mm		
C10-708354-00	Size 20 AWG hand crimp tool			
C10-730690-00	Size 16-18 AWG hand crimp tool			
C10-780874-000	4way plug 150°C			
C10-780875-000	4way receptacle 150°C			
C10-780109-12()	Socket 12~14AWG			
C10-780110-12()	Pin 12~14AWG			
C10-780168-12()	Pin 16~18AWG			
C10-780169-12()	Socket 16~18AWG			

* Socket Contacts are available on reels of 4,000 pieces

* For Crimp Information please contact factory

* Cable seals are sold separately and must be used in all cavities and on both sides of the connection system

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