# **Amphenol**<sup>®</sup>



### **Amphenol® Tru-Loc® Rugged Environment** Connector featuring RADSOK® Contacts

Amphenol Industrial Products Group introduces a connection system family with 1.5 mm socket contacts featuring Amphenol's exclusive RADSOK® contact system. The new Tru-Loc connector series is designed to perform in demanding environments, such as under valve covers on diesel engines and in high vibration sensor applications.

Tru-Loc features a molded thermoplastic main plug body with resistant to many fluids, including diesel fuel.

The Tru-Loc series includes 2-way, 4-way, and 6-way inline plugs and receptacles. Our engineering team can also design this series to mate to a device, sensor, fuel injector, splitter, pass through connector, and more. Special backshells can be designed for the 6-way series, and we can meet 150°C temperatures upon request. These connection systems are RoHS compliant and seal to IP67 when mated. They are rated for high vibrations at 32 Grms.

#### 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 M Ohms Matting force less then 70N

- Operating temperature can meet -40°C to +125°C, 100 cycles, 1 hour per cycle. PN's meeting 150°C upon request
- Durability is 20 mating cycles

www.amphenol-industrial.com



**Material Specification** 

Plug with RADSOK® Socket Contacts

Plug Body Nylon Wire Seal Silicone

Main Joint Seal Fluoroelastomer

Socket Contact Copper Alloy w/ Stainless Steel Hood

Receptacle with Pin Contacts

Receptacle Body Copper Alloy Pin Contact Copper Alloy

**Electrical Specifications** 

Dielectric Withstanding Voltage (Test Voltage) 1600 Vac RMS

Current Rating 13 amp (DC) (16 AWG Cable)

Insulation Resistance 100 M Ohms

**Mechanical Specifications** 

Connector Mating Force <70 N (15.7 lb)

Contact Retention Primary Only: 80 N (18.0 lb) Secondary Only: 60 N (13.5 lb)

Vibration 32 g RMS

Operating Temperature Range -40°/+125°C, (150°C PN's upon request)

100 cycles, 1 hour per cycle

Ingress Protection IP67
Durability (Mating Cycle) 20 cycles

AIPG 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)	125°C
10-707508-02X(X: A,B,C,D)	6way Plug (Plug Body, Locking Collar, and Main Joint Seal)	4 indexes available, 125°C
10-707516-001	2way receptacle	125°C
10-707517-001	4way receptacle	125°C
10-707509-00X(X: A,B,C,D)	6way receptacle	4 indexes available, 125°C
10-838137-00D	Wire seal (silicone)	To be used with insulated wires
		with insulation between 1.2-2.1 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+PaNi 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
C10-708354-000	Size 20 AWG hand crimp tool	
C10-730690-000	Size 16-18 AWG hand crimp tool	

- \* Socket Contacts are available on reels of 4,000 pieces
- \* For Crimp Information please contact factory
- Cable seals are sold separtely and must be used in all cavities and on both sides of the connection system

For additional information on the Amphe-Power® family of connectors with RADSOK® Technology, please ask for our RADSOK® Catalog (SL-391) or download it from the Catalogs section of our website.



Notice: Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements of suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all connectors.

For further information on your individual application requirements, contact: Amphenol Corporation

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