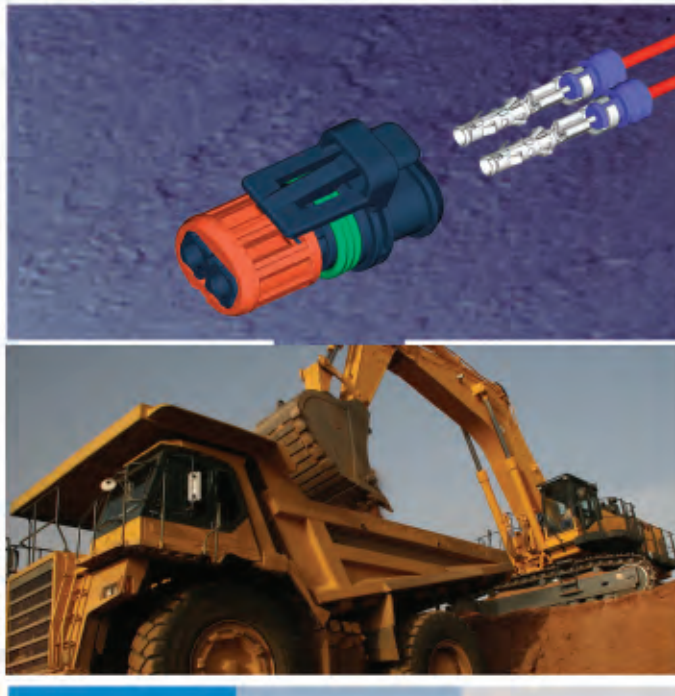


Amphenol®



Amphenol® TRU-LOC® Rugged Environment Connector featuring RADSOK® Contacts.

Amphenol® Industrial Operations introduces a 2-pin connector 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 various under the hood interconnect applications.

Tru-Loc features a molded thermoplastic main plug body with secondary latch, fluoroelastomer main joint seal and silicone rubber wire seals.

The RADSOK™ contact system is a patented electrical terminal based on a hyperbolic grid configuration. The cylinders contain elongated contactor strips connected in spaced, parallel relationships, twisted into a hyperbolic shape. As a male pin is inserted, the grid deflects, imparting high normal forces. The hyperbolic configuration ensures a large coaxial, face-to-face engagement area for a low milli-volt drop connection with low insertion force. The stamped grid and cylinder are very rugged, allowing for a high quantity of insertion cycles and off axis insertions.

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

Consult Factory (Depends on Application and Environment)

Pin Contact

Copper Alloy

Electrical Specifications

Dielectric Withstanding Voltage (Test Voltage)

1600 Vac RMS

Current Rating

7.5 Amps (DC)

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, 100 cycles, 1 hour per cycle

Ingress Protection

IP67

Durability (Mating Cycle)

20 cycles

AIO Part Number	Description	Additional Information
C10-838275-000	3 Piece Plug (Plug Body, Locking Collar, and Main Joint Seal)	
C10-838137-00D	Fluoroelastomer Wire Seal	To be used with Insulated wires with insulation between 1.2-2.1 mm.
C10-838138-000	Socket Contact*	Crimps to wire from 0.2-0.4 sq. mm.

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

* For Crimp Information please contact factory

For additional information on the Amphe-Power® family of connectors with RADSOK Technology, please ask for Catalog SL-391.

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

North America:
Amphenol Industrial Operations
180 N. Freeport Drive, Plant 4
Nogales, AZ 85621
Tel: (520) 285-5130
Fax: (520) 285-5134
Email: rpedrazzini@amphenol-aio.com

Europe:
Amphenol Industrial Operations Europe
Via Barbaiana 5
1-20020 Lainate (MI) Italy
Tel: +39 02 93254.204
Fax: +39 02 93254.444
Email: info@amphenol-aio.com

Middle East:
Amphenol Middle East Enterprises FZE
Office C-37 PO Box 21107
Ajman Free Zone, UAE
Tel: +9716-7422494
Fax: +9716-7422941
Email: ameezfe@eim.ae

Asia:
Amphenol Technology Shenzhen Ltd
Block 5 Fuan 2nd Industrial Park
Dayang Rd, Fuyong Baoan
Baoan, Shenzhen, China 518103
Tel: +86 755 2881 8389
Fax: +86 755 2991 8310
Email: yb.zhu@amphenol-industrial.com