



Tru-Loc® Splitter

Amphenol Industrial Tru-Loc® Splitter for Harsh Environments

Amphenol Industrial introduces a Splitter connector complimentary to its Tru-Loc® family of products. The Tru-Loc® Splitter is designed to take a single 6-Way Tru-Loc® Plug and split the signal or power into two identical 6-Way Tru-Loc Plugs without degradation or intermittency.

The Tru-Loc® Splitter features a molded thermoplastic body resistant to many fluids, including diesel fuel making this series ideal for harsh environments. True to the series, the Tru-Loc® Splitter is vibration resistant to 32 grms, IP67 rated and can withstand operating temperatures up to 150°C. Amphenol's Splitter offers a means to combine many sensors into a single Engine Control Unit. The Splitter effectively branches a single six-circuit connector harness into two individual six-circuit connector harnesses while maintaining a matched impedance of 120 Ohms between the I/O power circuits and CAN circuits. The greatest benefit is being able to put both Power and CAN into a single connector harness reducing the number of connectors and harnesses produced by 2x for the CAN application. Amphenol Industrial offers a 6-Way Plug with contacts for either 16AWG or 20AWG wire and a 6-Way Terminating Resistor Plug - fitted with a 120 Ohm resistor for use at the end of the bus.

Features:

- Ingress Protection – IP67 rated
- Gold Plated 1.5mm Pin Contacts
- Resilient up to 32 grms vibration
- Dielectric Withstanding Voltage – 1600 Vac RMS
- Matched Impedance 120 Ohms, 2 pairs
- Operating Temperature -40°C to 150°C



Material Specification

Plug with RADSOK® Socket Contacts

Plug Body

Wire Seal

Main Joint Seal

Socket Contact

Nylon

Silicone

Fluoroelastomer

Copper Alloy w/ Stainless Steel Hood

Receptacle with Pin Contacts

Receptacle Body

Pin Contact

Nylon

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 or +150°C depending on PN;

100 cycles, 1 hour per cycle

Ingress Protection

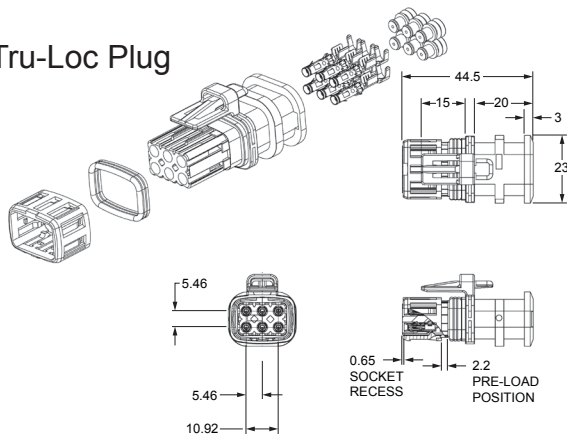
IP67

Durability (Mating Cycle)

20 cycles

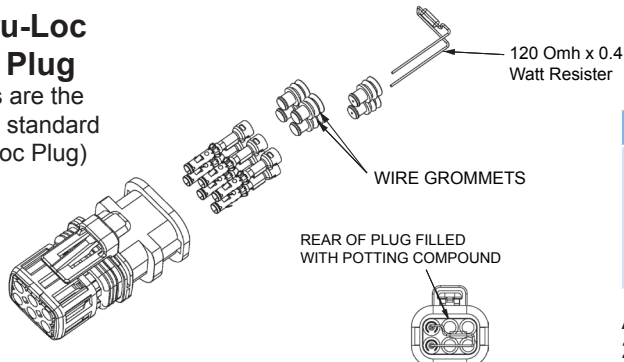
Plug

6 Way Tru-Loc Plug



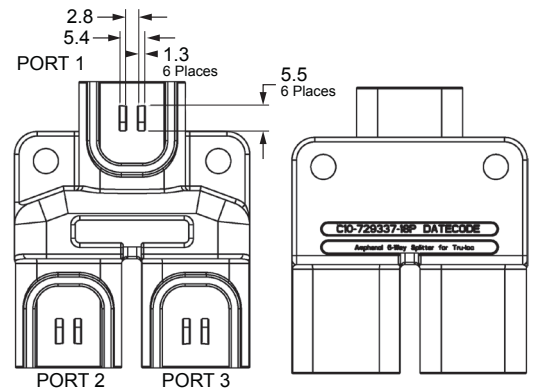
6 Way Tru-Loc Resistor Plug

(Dimensions are the same as the standard 6 Way Tru-Loc Plug)



Receptacle

Tru-Loc Splitter Receptacle for 6 Way Plugs



Part Number	Description
C10-708354-000	Hand crimper with 20-22 AWG Die
C10-708360-000	6 Way Tru-Loc Dummy Plug
C10-708305-000	6 Way Tru-Loc Resistor Plug
C10-708353-000	6 Way Tru-Loc Plug, Gold Contacts for 20 AWG Wire
C10-729337-18P	Tru-Loc Splitter Receptacle for 6 Way Plugs

Ask about our custom matched impedance cable with 2 sets of 20AWG twisted pairs, each rated for 120 Ohms impedance.

For additional information on Amphenol's family of Tru-Loc products, please ask for our Tru-Loc data sheet (IDS-16) or download it from our website in the Data Sheets section.

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

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