



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)
Current Rating
Insulation Resistance

1600 Vac RMS
13 amp (DC) (16 AWG Cable)
100 M Ohms

Mechanical Specifications

Connector Mating Force
Contact Retention

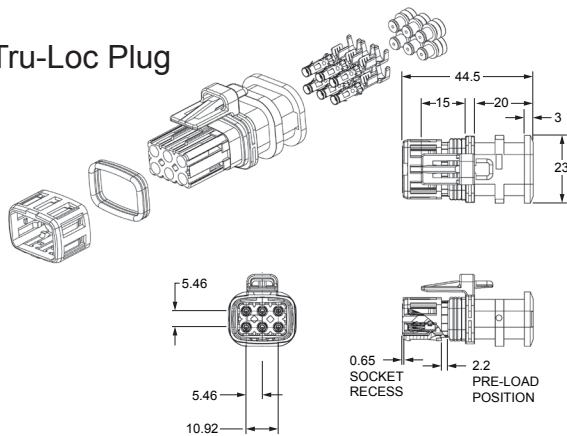
Vibration
Operating Temperature Range

Ingress Protection
Durability (Mating Cycle)

<70 N (15.7 lb)
Primary Only: 80 N (18.0 lb)
Secondary Only: 60 N (13.5 lb)
32 g RMS
-40°/+125°C or +150°C depending on PN;
100 cycles, 1 hour per cycle
IP67
20 cycles

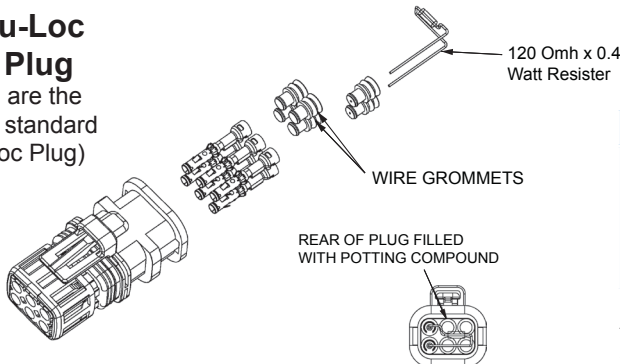
Plug

6 Way Tru-Loc Plug



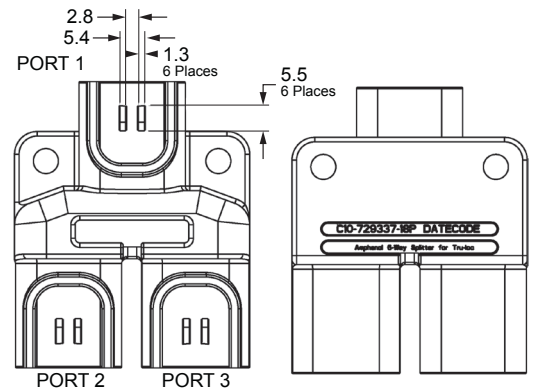
6 Way Tru-Loc Resistor Plug

(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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