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

<table>
<thead>
<tr>
<th>Component</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plug Body</td>
<td>Nylon</td>
</tr>
<tr>
<td>Wire Seal</td>
<td>Silicone</td>
</tr>
<tr>
<td>Main Joint Seal</td>
<td>Fluoroelastomer</td>
</tr>
<tr>
<td>Socket Contact</td>
<td>Copper Alloy w/ Stainless Steel Hood</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receptacle Body</td>
<td>Nylon</td>
</tr>
<tr>
<td>Pin Contact</td>
<td>Copper Alloy</td>
</tr>
</tbody>
</table>

### 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

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**Plug**

**6 Way Tru-Loc Plug**

- **Dimensions:**
  - **PORT 1:** 2.8
  - **PORT 2:** 5.4
  - **PORT 3:** 5.5
  - **6 Places**

**Receptacle**

**Tru-Loc Splitter Receptacle for 6 Way Plugs**

- **Part Number**: C10-708354-000
  - **Description**: Hand crimer with 20-22 AWG Die
- **Part Number**: C10-708360-000
  - **Description**: 6 Way Tru-Loc Dummy Plug
- **Part Number**: C10-708305-000
  - **Description**: 6 Way Tru-Loc Resistor Plug
- **Part Number**: C10-708353-000
  - **Description**: 6 Way Tru-Loc Plug, Gold Contacts for 20 AWG Wire
- **Part Number**: C10-759337-18P
  - **Description**: 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.

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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.