Termination Resistors are required on a NMEA 2000® network and are placed at each end of a network trunk cable. Like the double-ended cordsets, the termination resistors are waterproof and continue to function even while submerged in the bilge.

- Diagnostic versions indicate correct polarity at a glance to ensure power connections have been made properly
- Screw connector for positive connection
- Termination resistors are used to terminate both ends of the trunk line

The Mini Elbow is used in spots where it is impossible to bend a cordset around tight corners. The elbow easily connects to a tee or double-ended cordsets making 90 [degree] turns practical at the end or anywhere along the line.

- Mounting hole for secure fastening of cabling system
- Waterproof seals for reliable connections
- Nickel plated brass ideally suited for harsh marine environment

The reducer is used to change from a Mini cable to Micro or Mid cable. For example, one end of the network might be terminated at the top of the mast but it may not be desirable to run a Mini trunk cable up the mast. In this case, you can switch over to Micro or Mid cable at the base of the mast using the reducer and continue up the mast with Micro or Mid cable.

- Corrosion resistant Nickel plated Brass
- Weatherproof to IP67
- Reduces Mini Backbone to Micro/Mid Cable
Mini Termination Resistor (Male/Female)

Specifications

**MECHANICAL**
- Molded Body Mat/Color: Thermoplastic PUR/Blue-Gray – TR-NM, TR-NF
- Contact Carrier Mat/Color: Thermoplastic PUR/Clear – TRL-NM, TRL-NF
- Contact Mat/Plating: Brass/Gold
- Coupling Nut Mat/Plating: Brass/Nickel

**ELECTRICAL**
- Rated Voltage: 300 V DC
- Internal Resistor: 120 Ohms (1/2 W)
- Voltage Monitoring: Green: Correct Polarity, Red: Reversed Polarity – TRL-NM, TRL-NF

**ENVIRONMENTAL**
- Protection Class: IEC IP67, NEMA 1,3,4,13
- Temperature Rating: -40°C to 80°C (-40°F to 176°F)

**APPROVALS**
- NMEA: NMEA 2000® Approved
- IEC: IEC 61162-3

Products

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>TR-NM</td>
<td>Mini Termination Resistor (Male)</td>
</tr>
<tr>
<td>TR-NF</td>
<td>Mini Termination Resistor (Female)</td>
</tr>
<tr>
<td>TRL-NM</td>
<td>Mini Termination Resistor with LED (Male)</td>
</tr>
<tr>
<td>TRL-NF</td>
<td>Mini Termination Resistor with LED (Female)</td>
</tr>
</tbody>
</table>

Mini 90° Male to Female Connector

Specifications

**MECHANICAL**
- Molded Body Mat/Color: Thermoplastic PUR/Blue
- Contact Carrier Mat/Color: Thermoplastic PUR/Blue
- Contact Mat/Plating: Brass/Gold
- Coupling Nut Mat/Plating: Brass/Nickel

**ELECTRICAL**
- Rated Current: 9.0 Amps
- Rated Voltage: 600 V

**ENVIRONMENTAL**
- Protection Class: IEC IP67, NEMA 1,3,4,6 P
- Temperature Range: -40°C to 80°C (-40°F to 176°F)

**APPROVALS**
- NMEA: NMEA 2000® Approved
- IEC: IEC 61162-3

Products

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<tr>
<th>PART NUMBER</th>
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<tbody>
<tr>
<td>ELB-NM-NF</td>
<td>Mini 90° Male to Female Connector</td>
</tr>
</tbody>
</table>

Mini Male to Micro Female Reducer

Specifications

**MECHANICAL**
- Molded Body Mat/Color: Thermoplastic PUR/Blue-Gray – TR-NM, TR-NF
- Contact Carrier Mat/Color: Thermoplastic PUR/Clear – TRL-NM, TRL-NF
- Contact Mat/Plating: Brass/Gold
- Coupling Nut Mat/Plating: Brass/Nickel

**ELECTRICAL**
- Rated Current: 4.0 Amps
- Rated Voltage: 250 V

**ENVIRONMENTAL**
- Protection Class: IEC IP67, NEMA 1,3,4
- Temperature Range: -40°C to 75°C (-40°F to 167°F)

**APPROVALS**
- NMEA: NMEA 2000® Approved
- IEC: IEC 61162-3

Products

<table>
<thead>
<tr>
<th>PART NUMBER</th>
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<tbody>
<tr>
<td>NM-CF</td>
<td>Mini Male to Micro Female Reducer</td>
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</tbody>
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