Maretron cables have a male connector on one end and a female connector on the other end. Normally, the male connector points back towards the network power supply, but on some occasions, this gets reversed and a gender changer can be used to get back to the desired connector type.

- Waterproof seals for reliable connections
- Easily swap connector gender to get back to desired connector type

The Bulkhead Feed-Thru allows ease of installation through panels or bulkheads and establishes future connection points in a network installation. The bulkhead feed-thru also maintains the integrity of watertight bulkheads by providing a waterproof seal and connection.

- Features rugged keyways for positive alignment of connections
- Waterproof rated to IP67

The N2KMeter® enables trained and untrained personnel to diagnose and trouble-shoot network installations quickly and easily. Completely passive on the network, the meter analyzes both data and power lines on the network. In seconds, both network-wide and device-specific traffic as well as power monitoring information is captured and displayed on a simple user interface.

- Diagnostic tool for NMEA 2000® networks
- Evaluates physical layer device functions on a network
- Data at boat can be locked in and then evaluated later on bench
### Mini Gender Changers

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

### Mini Bulkhead Feed-Thru

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

### Specifications

#### MECHANICAL

- **Molded Body**: Thermoplastic PUR/Blue-Gray
- **Contact Carrier**: Thermoplastic PUR/Blue-Gray
- **Contact**: Brass/Gold
- **Coupling Nut**: Brass/Nickel

#### ELECTRICAL

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

#### ENVIRONMENTAL

- **Protection Class**: IEC IP67, NEMA 1,3,4,6P – NM-NM
- **Temperature Range**: -40°C to 105°C (-40°F to 221°F)

#### APPROVALS

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

### Electrician Mode (Simple)

1. Plug in and set N2KMeter® rotary switch to “autosearch”
2. Identify network health
   - Happy face = healthy
   - Neutral face = nominal
   - Sad face = faulty
3. Scroll through faults. Refer to user manual to link these faults to most likely network problems or freeze and lock settings for review back at the shop by an NMEA 2000® expert.

### Expert Mode (Advanced)

1. Scroll through NMEA 2000® parameters for each active NMEA 2000® node (MAC ID)
   - Communication errors (rate, cumulative #)
   - Bandwidth (% of full usage)
   - Power supply and shield voltages
   - Data bit quality (dominant, recessive, +, -, differential voltage, CMV)
2. Check values (both numeric and icons)
   - Happy face = within spec
   - Neutral face = very close to limit
   - Sad face = out of limit
3. Refer to user manual to link these faults to most likely network problems

### Products

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>NM-NM</td>
<td>Mini Gender Changer (Male/Male)</td>
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<tr>
<td>NF-NF</td>
<td>Mini Gender Changer (Female/Female)</td>
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<tbody>
<tr>
<td>BHF-NM-NF</td>
<td>Mini Bulkhead Feed-Thru</td>
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<tr>
<th>PART NUMBER</th>
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<tr>
<td>N2KMET-01</td>
<td>Diagnostic Meter w/1m Micro Cordset</td>
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