Assembling and Wiring the Connector

NOTE: The instructions are the same for both male and female connectors.

1. Remove a connector from the bag and unscrew the terminal assembly from the body of the connector (see Figure 1).

2. Push the cable through the compression nut and the body of the connector including the cable gland inside until the cable projects through the opposite end. Do not tighten the compression nut at this time.

3. Strip 25mm (1") of the outer jacket and foil shield from the cut end of the cable to expose the colored conductors.

4. Strip 5mm (3/16") of insulation from the end of each colored conductor.

5. Cover the bare wire with electrical tape or shrink tubing (not supplied).

6. Secure each conductor to the appropriate terminal by tightening the set screw. Follow the color code below (see Figure 2).

7. Repeat until all the conductors are secured.

8. Attach the terminal assembly to the body by rotating the plastic ring in a clockwise direction (see Figure 1).

9. Secure the compression nut to the body by rotating it in a clockwise direction. This will hold the cable firmly in place.

10. Repeat the steps for each connector.

Figure 1. Assembling connector (Turck female connector shown)

Figure 2. Connecting to the terminals (Turck connectors shown)

Wiring Key
1. Silver  SHD (bare)
2. Red      V+
3. Black    V−
4. White    CANH
5. Blue     CANL

NOTE: blue terminal set screw faces right

NOTE: blue terminal set screw faces left

NMEA 2000® is a registered trademark of the National Marine Electronics Association.
### Wiring Diagram

**Micro Powertap Tee**  
**NMEA 2000® Compatible**

- **Pin #5 NET-L (data)**  
- **Pin #4 NET-H (data)**  
- **Pin #1 Shield (drain)**  
- **Pin #3 NET-C (ground) J1 side**  
- **Pin #2 NET-S (power) J1 side**  
- **Pin #5 NET-L (data)**  
- **Pin #4 NET-H (data)**  
- **Pin #1 Shield (drain)**  
- **Pin #3 NET-C (ground) J2 side**  
- **Pin #2 NET-S (power) J2 side**

**Connecting**

<table>
<thead>
<tr>
<th>Color</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>V+</td>
</tr>
<tr>
<td>Brown</td>
<td>V+</td>
</tr>
<tr>
<td>Black</td>
<td>V−/ground</td>
</tr>
<tr>
<td>Blue</td>
<td>V−/ground</td>
</tr>
<tr>
<td>Grey</td>
<td>V−/ground</td>
</tr>
</tbody>
</table>

**WARNING:** The power panel must have 12VDC at 0.5 amp fast-blow fuse or circuit breaker.

**Purchase Parts**

Obtain parts from your instrument manufacturer or marine dealer.

- **Gemeco**  
  Tel: 803.693.0777  
  Fax: 803.693.0477  
  email: sales@gemeco.com  
  (USA)

- **Airmar EMEA**  
  Tel: +33.02.23.52.06.48  
  Fax: +33.02.23.52.06.49  
  email: sales@airmar-emea.com  
  (Europe, Middle East & Africa)

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