



Marine Ethernet Installation Instructions

The Garmin Marine Network is an Ethernet network used to share data such as radar, sonar, and detailed mapping. You can modify the Ethernet cable to suit your installation needs. To obtain the best performance and to avoid damage to your boat, install the connector according to these instructions. Read all installation instructions before proceeding with the installation. If you experience difficulty during the installation, contact Garmin Product Support.

Contacting Garmin Product Support

- Go to www.garmin.com/support and click **Contact Support** for in-country support information.
- In the USA, call (913) 397.8200 or (800) 800.1020.
- In the UK, call 0808 2380000.
- In Europe, call +44 (0) 870.8501241.

Important Safety Information

⚠ WARNING

See the *Important Safety and Product Information* guide in the product box for product warnings and other important information.

⚠ CAUTION

Always wear safety goggles, ear protection, and a dust mask when drilling, cutting, or sanding.

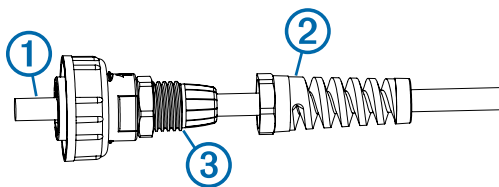
NOTICE

When drilling or cutting, always check what is on the opposite side of the surface.

Preparing the Network Cable

- Cleanly cut the Ethernet cable ① to the needed length.

NOTE: Retain the connector for use in step 4.



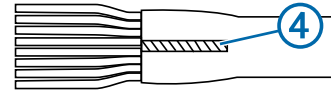
- Remove the strain-relief nut ② from the cable-connection housing ③ and slide the nut onto the cut end of the Ethernet cable.
- Feed the cut cable end through the connection housing.
- Examine the connector removed from the cable and compare it to this table to determine whether cable side A or cable side B was removed.

Position	Side A	Side B
1	White/Orange	White/Green
2	Orange	Green
3	White/Green	White/Orange
4	Blue	Blue
5	White/Blue	White/Blue
6	Green	Orange
7	White/Brown	White/Brown
8	Brown	Brown

NOTE: As a point of reference, the brown wire will always be in position 8.

NOTE: The Garmin Marine Network requires cross-over cables not exceeding 100 m between devices.

- Using a sharp knife, insert the blade between the cable shield and jacket, and slit the jacket 16 mm ($\frac{5}{8}$ in.) from the cut end of the cable.
- Peel the jacket back and remove the slit portion.
- Trim the drain wire ④ to approximately 14 mm ($\frac{9}{16}$ in.) and fold the drain wire back over the jacket.



- Arrange the individual wires in order according to table shown in step 4.

NOTE: When constructing a custom cable from bulk wire, you must create both a side A and a side B.
- Trim the wires to an even length, leaving approximately 14 mm ($\frac{9}{16}$ in.) from the ends of the wires to the jacket edge.
- Wrap the supplied copper tape around the drain wire and jacket.
- Using a pair of pliers, squeeze the copper tape to pre-form the cable jacket end.

Installing the Network Connector

- With the wires in the correct order, insert the wires into the modular plug until the ends of the wires touch the bottom of the plug.
- Verify the wires are in the correct order.
- If any wire is not in the correct position, remove the plug, arrange the wires in the correct order, and reinsert the wires into the plug.
- Using a modular plug hand tool, crimp the plug onto the wires.
- Align the release tab on the modular plug with the corresponding notch in the cable-connection housing, and push the cable through the connection housing until plug is securely seated.
- Screw the strain relief nut onto the cable-connection housing and tighten with a 15 mm wrench.

NOTE: Do not overtighten the nut.
- Install the O-ring onto the housing.

The cable is now ready for use.

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