

Making a NMEA 2000® Cable

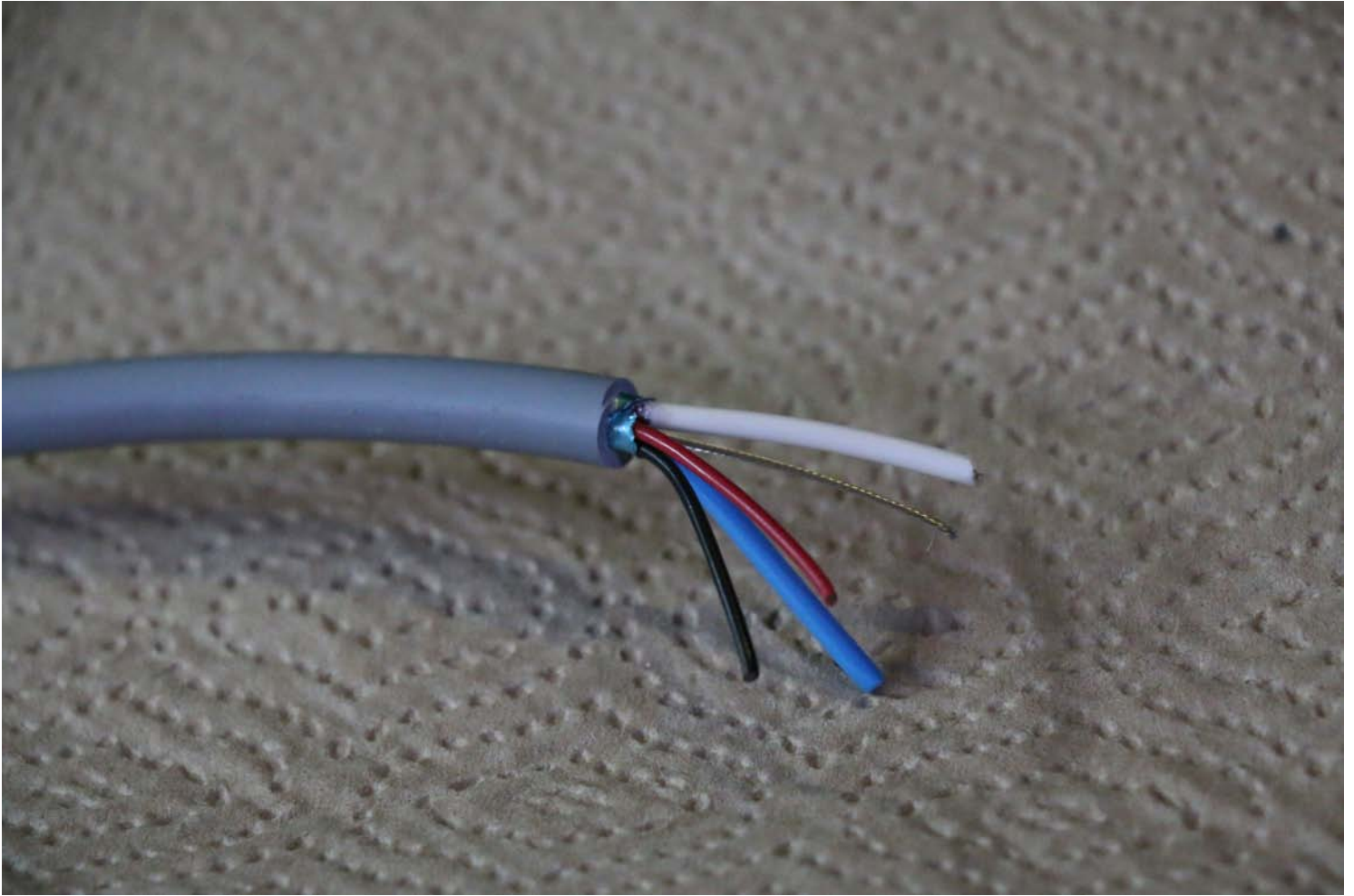
Let me show you how to change a Raymarine SeaTalk^{ng} cable into a NMEA 2000® cable or make a whole new custom length NMEA 2000® cable.

First of all, Raymarine SeaTalk^{ng} uses the same communication standards as NMEA 2000® and the two cables use the same wire color-coding. Raymarine has chosen not to put a NMEA 2000® port on it's equipment. SeaTalk^{ng} cable end connectors are great when you don't have a lot of room to spare. But, there are times when you may want to hook up a non-Raymarine device to your network. The first photo is a Raymarine SeaTalk^{ng} trunk cable. Simply put a NMEA 2000® connector on it and can start adding NMEA 2000® T-connectors for equipment drops cables.



The NMEA 2000® cable system includes five wires within a single waterproof cable: two signal wires typically in a foil wrap, power and ground wires typically in a foil wrap, and a bare drain wire. The drain wire shields the signal, power, and ground wires from external Radio Frequency Interference (RFI) and helps reduce RFI emission from the cable.

The color, name, and usage for each wire contained within the cable are:
White NET-H Signal, Blue NET-L Signal, Bare SHIELD Drain, Black NET-C Ground, Red NET-S
Power.



Maretron



www.maretron.com

FA-CF-ST

Micro/Mid Field Attachable
Connector (Straight Female)



- 1: SHIELD (DRAIN)
- 2: NET-S (+ VOLTAGE)
- 3: NET-C (- VOLTAGE)
- 4: NET-H (CAN_H)
- 5: NET-L (CAN_L)

INSTALLATION INSTRUCTIONS

- 1) Follow the diagram and slide everything onto the cable except the connector
- 2) Strip and prepare the wires as shown in the diagram
- 3) Connect the bare or shield wire first before the un-insulated stranded wire becomes separated
- 4) Leave the center blue wire for last
- 5) Slide the strain relief parts back towards the connector and secure with the threaded part



1 EACH

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2416G

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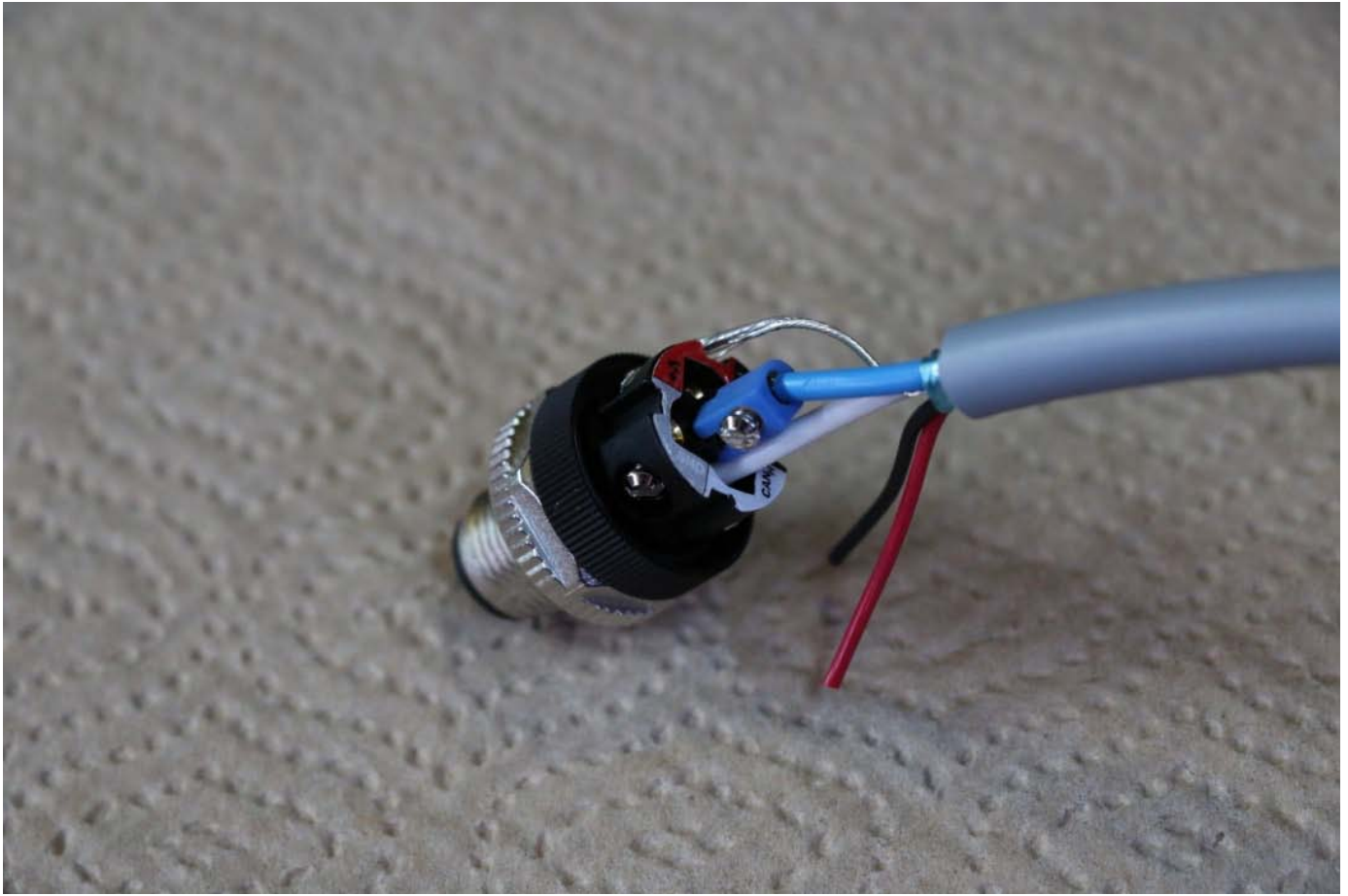
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The connector is color coded to match the cable.





Just make sure you put a heat shrink tube over bare drain wire so it does not come into contact with any other metal.

