

## Regatta Processing 746092883335

# NMEA 2000 (N2K) 2 Meter (6ft 6 inches) Backbone Drop or Extension Cable User Manual

Model: 746092883335 | Brand: Regatta Processing

## 1. INTRODUCTION

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This manual provides essential information for the proper use, installation, and maintenance of your Regatta Processing NMEA 2000 (N2K) 2 Meter (6ft 6 inches) Backbone Drop or Extension Cable. This cable is designed to facilitate reliable data communication within an NMEA 2000 network, connecting various marine electronic devices such as sensors and displays, or extending existing N2K backbone segments.

Key features include:

- **Length:** 2 meters (6 feet 6 inches) for flexible network configurations.
- **Connectors:** Terminated with NMEA 2000 5-pin connectors on both ends, featuring gold-plated contacts for enhanced corrosion resistance and signal integrity.
- **Construction:** Black cable (22AWG/2C and 24AWG/2C) with shielding to minimize electromagnetic interference.
- **Durability:** NMEA 2000 Certified and tested to IP67 waterproof standards, ensuring submersion resistance up to 1 meter for 24 hours.
- **Compatibility:** 100% universal and compatible with other NMEA 2000 certified products from various manufacturers, including Lowrance, Simrad, B&G, Navico, and Garmin networks.

## 2. SETUP AND INSTALLATION

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The NMEA 2000 cable is designed for straightforward integration into an existing NMEA 2000 network. Follow these steps for proper setup:

1. **Identify Connection Points:** Determine whether the cable will be used as a drop cable to connect a device to the backbone, or as an extension to lengthen an existing backbone segment.
2. **Prepare Connectors:** Ensure that the 5-pin NMEA 2000 connectors on both the cable and the target device/backbone segment are clean and free of debris. The cable features both male and female connectors for versatile connection options.
3. **Connect the Cable:** Align the pins of the cable's connector with the corresponding sockets on the NMEA 2000 port of your device or backbone component. Gently push the connectors together until they are fully seated.

4. **Secure the Connection:** Twist the threaded collar of the cable connector clockwise until it is hand-tight. This ensures a secure physical and waterproof seal (IP67 rated). Do not overtighten.
5. **Route the Cable:** Route the cable safely, avoiding sharp bends, pinch points, or areas where it could be exposed to excessive heat or abrasion. Use cable ties or clamps to secure the cable along its path.



Figure 2.1: The NMEA 2000 cable, coiled, showing both male and female 5-pin connectors.



Figure 2.2: Detailed view of the NMEA 2000 5-pin male and female connectors.

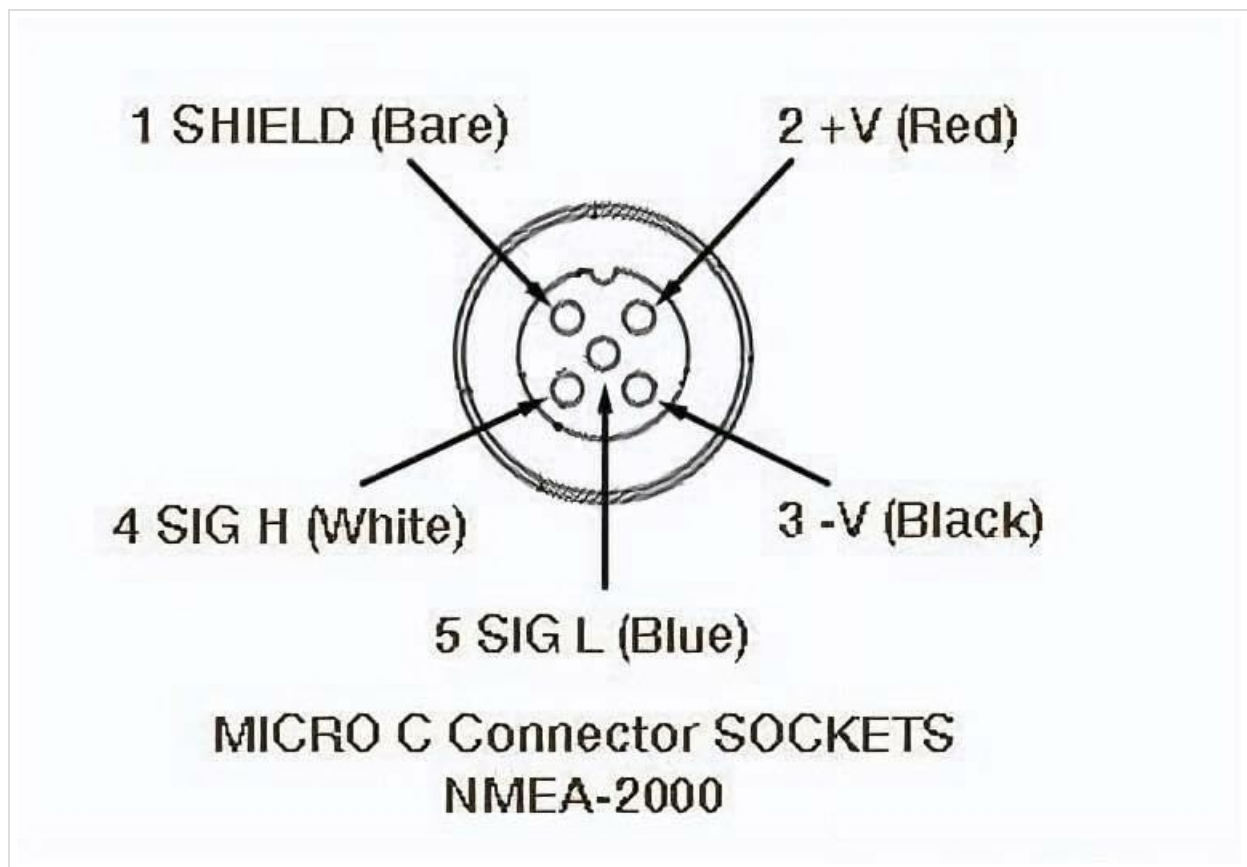


Figure 2.3: Pinout diagram illustrating the wiring of a Micro-C NMEA 2000 connector.

### 3. OPERATING PRINCIPLES

As a passive component, the NMEA 2000 cable does not require active operation. Its function is to provide a robust and reliable physical pathway for data transmission within the NMEA 2000 network. Once properly connected, the cable facilitates the flow of digital data between connected devices, enabling them to share information such as GPS data, depth, speed, engine parameters, and more.

The shielded construction of the cable helps to prevent external electromagnetic interference from disrupting data signals, ensuring consistent and accurate communication across the network. The gold-plated contacts further enhance signal integrity and resist corrosion in marine environments.

### 4. MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your NMEA 2000 cable. While the cable is designed for durability in marine environments, periodic inspection is recommended.

- **Cleaning:** If the cable or connectors become dirty, gently wipe them with a clean, damp cloth. Avoid using harsh chemicals or abrasive materials that could damage the cable jacket or connector contacts.
- **Inspection:** Periodically inspect the entire length of the cable for any signs of physical damage, such as cuts, abrasions, or kinks. Check the connectors for corrosion, bent pins, or loose collars.
- **Connection Integrity:** Ensure that all connected cables are securely tightened. A loose connection can lead to intermittent data loss or network issues.
- **Storage:** If the cable is disconnected for storage, ensure it is coiled loosely and stored in a dry, clean environment away from direct sunlight and extreme temperatures. Protect the connectors from dust and moisture.

The IP67 waterproof rating means the cable can withstand temporary submersion. However, it is always best practice to minimize prolonged exposure to water and ensure connections are properly sealed, especially in saltwater environments.

## 5. TROUBLESHOOTING

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If you experience issues with your NMEA 2000 network after installing this cable, consider the following troubleshooting steps:

- **No Data or Intermittent Data:**

- Verify that both ends of the cable are securely connected and the threaded collars are hand-tight.
- Inspect the cable for any visible damage (cuts, severe kinks) that could interrupt the internal wiring.
- Check the 5-pin connectors for bent or corroded pins/sockets.
- Ensure the NMEA 2000 network itself is properly terminated at both ends of the backbone.
- Confirm that the devices connected via the cable are powered on and configured correctly.

- **Device Not Recognized:**

- Ensure the cable is connected to the correct NMEA 2000 port on the device and the network.
- Test the cable with another known working NMEA 2000 device or cable to isolate the issue.

- **Physical Damage:**

- If the cable jacket is compromised, it may lead to water ingress or signal degradation. Replace damaged cables immediately.

For complex network issues, consult the user manuals of your NMEA 2000 devices or seek assistance from a qualified marine electronics technician.

## 6. SPECIFICATIONS

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Feature	Detail
Product Name	NMEA 2000 (N2K) 2 Meter (6ft 6 inches) Backbone Drop or Extension Cable
Brand	Regatta Processing
Model Number	746092883335
Cable Length	2 meters (6 ft 6 inches)
Connector Type	NMEA 2000 5-pin (Micro-C)
Connector Material	Gold-plated contacts
Cable Type	Shielded (22AWG/2C and 24AWG/2C)
Color	Black
Waterproof Rating	IP67 (Submersion in water, 1 meter for 24 hours)
Compatible Devices	NMEA 2000 network devices (Lowrance, Simrad, B&G, Navico, Garmin, etc.)
Product Dimensions	78.74 x 0.26 x 0.26 inches
Item Weight	4.94 ounces
Date First Available	January 7, 2021

## 7. WARRANTY AND SUPPORT

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For specific warranty information regarding this Regatta Processing NMEA 2000 cable, please refer to the product packaging or contact the seller directly. Warranty terms typically cover manufacturing defects under normal use.

For technical support or further inquiries, please visit the official Regatta Processing website or contact their customer service department. Ensure you have your product model number (746092883335) and purchase details available when seeking support.