


GPS NMEA Y-CABLE Installation Guide

OVERVIEW

Use the GPS NMEA Y-Cable to connect the Humminbird® GPS Receiver and a NMEA 0183 accessory to the ONIX® control head. We encourage you to read this guide completely before you start the installation so you may understand the installation requirements.


 **WARNING!** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

 **NOTE:** Product specifications and features are subject to change without notice.

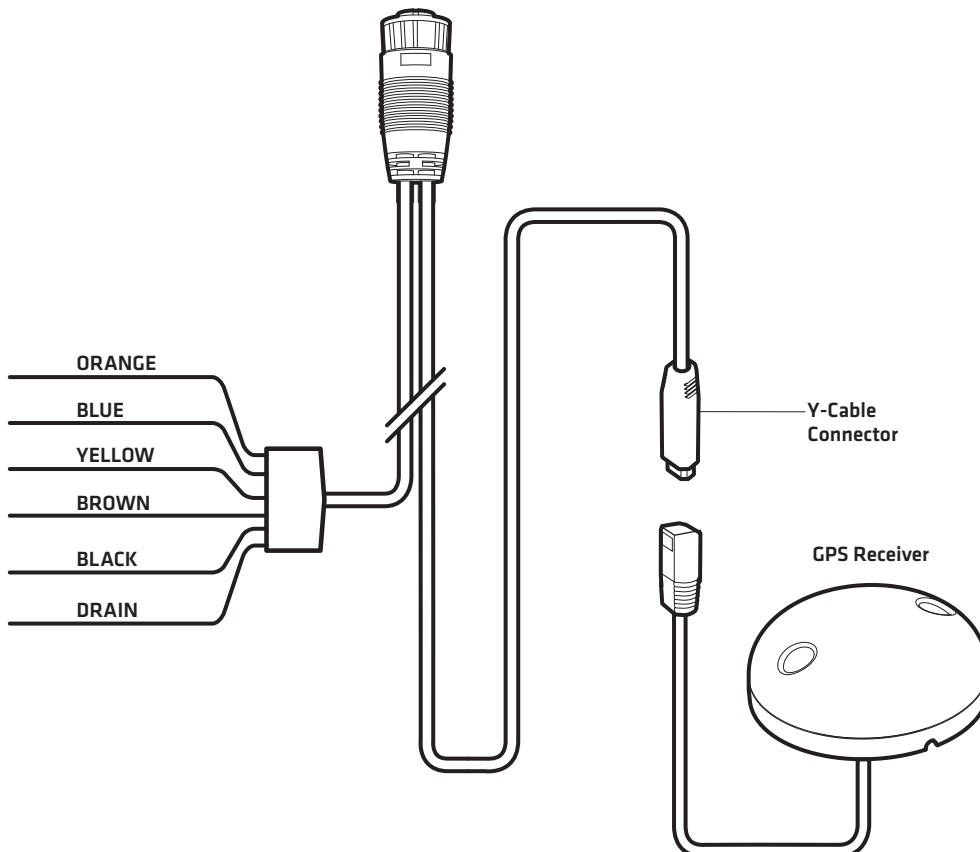
1 | Connecting to the GPS Receiver

Use the instructions in this section to connect the Humminbird GPS Receiver to the Y-Cable.

1. Turn off the power for the ONIX control head and each accessory.

 **WARNING!** Turn off power for all related equipment before you start the installation.

2. See the installation guide included with your GPS Receiver to install it on your boat. Make sure the cable is long enough to accommodate the planned route to the control head. See the GPS Receiver installation guide for details.
3. Connect the GPS Receiver connector to the connector on the Y-Cable.



Continued on the other side...

GPS NMEA Y-CABLE Installation Guide

2 | Connecting the NMEA 0183 Accessory to the Bare Wires

The accessory should include a NMEA 0183 data cable with bare wires for connecting to the Humminbird Y-Cable. Refer to the accessory's user manual for information about the data cable.

⚠ WARNING! Turn off power for all related equipment before you start the installation.

1. Use the accessory manual to locate the following wires on the Accessory Data Cable: transmit A(+), transmit B(-), receive A(+), receive B(-), ground, and drain.
2. Connect the Y-Cable wires to the Accessory Data Cable wires as shown in the following table. Tape or apply heat-shrink insulation to each connection to prevent shorting the wiring.

RS-422 GPS NMEA Y-Cable (NMEA 0183)	RS-422 Accessory Data Cable (NMEA 0183)
Orange: Transmit A(+)	Receive A(+)
Blue: Transmit B(-)	Receive B(-)
Yellow: Receive A(+)	Transmit A(+)
Brown: Receive B(-)	Transmit B(-)
Black: Ground	Ground
Bare: Drain	Drain

If the accessory data cable has a different set of wires, you may use the following optional wiring chart:

RS-232 GPS NMEA Y-Cable (NMEA 0183)	RS-232 Accessory Data Cable (NMEA 0183)
Orange: Transmit A(+)	Receive A(+)
Blue: Transmit B(-)	Ground
Yellow: Receive A(+)	Transmit A(+)
Brown: Receive B(-)	Ground
Black: Ground	Ground
Bare: Drain	Ground

3. If the Accessory Data Cable does not include a drain wire, tape or apply heat-shrink insulation to the Y-Cable drain wire.

3 | Routing the Cable

1. Route the Y-Cable to the ONIX control head.
2. Insert the Y-Cable connector into the NMEA 0183 port. The ports are labeled, and the connector is keyed to prevent incorrect installation.
3. Hand tighten the screw nut to secure the connection.
4. Follow the instructions in the accessory manual to connect it to a power source.

✍ NOTE: The baud rate on the ONIX NMEA 0183 ports defaults to Auto. To select a specific baud rate, see your ONIX control head installation guide or operations guide.

Connecting the GPS NMEA Y-Cable to the NMEA 0183 Port (magnified view)

