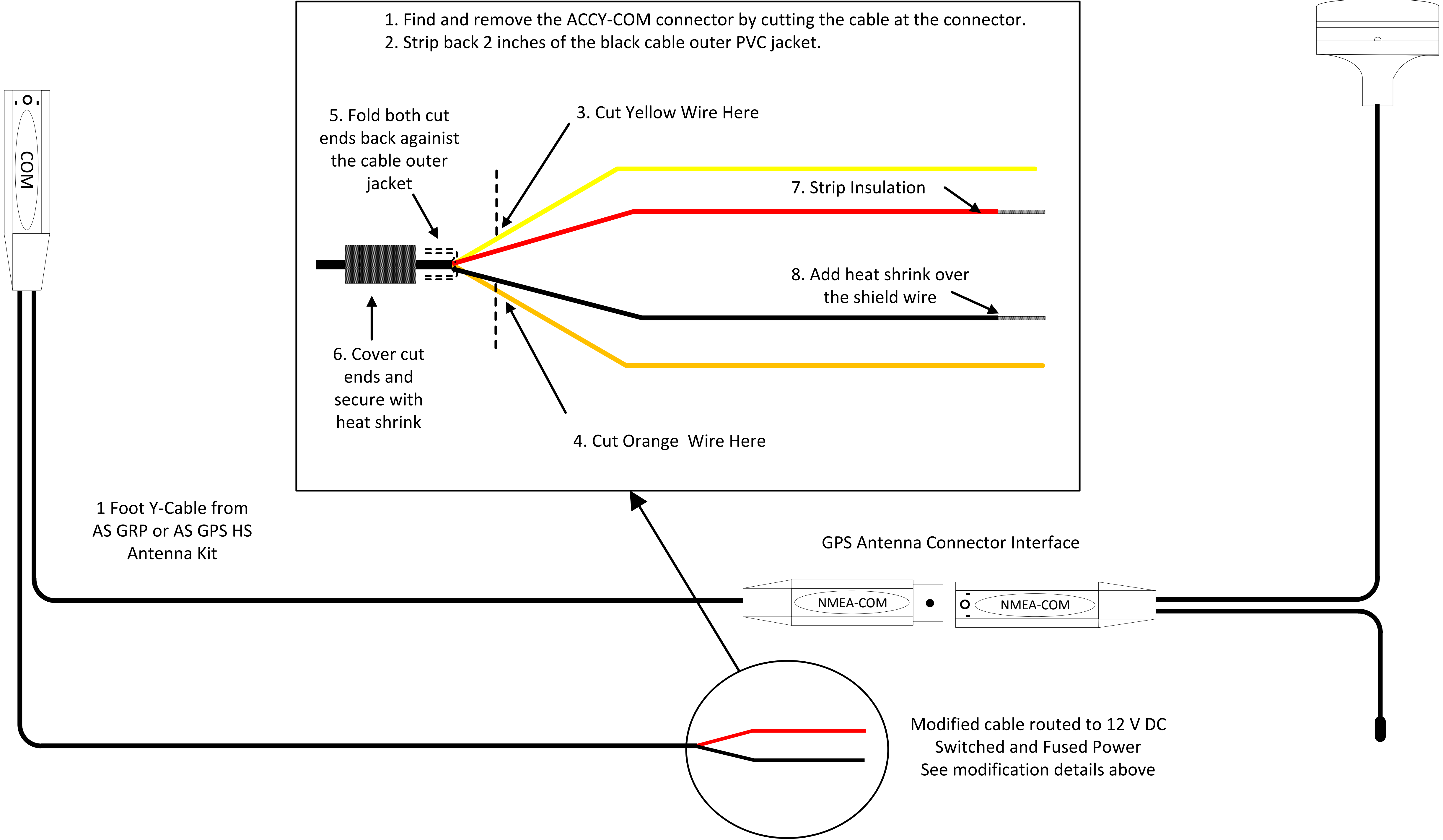


# HELIX External GPS Cabling Option 1 Foot Power Y-Cable Modification

Humminbird  
GPS Antenna



Notes: See Directions on page 2 for written modification directions and information concerning software setup.

Drawn By: G. Irish	Date: May 14, 2015	
HELIX External GPS Antenna Cabling		
GPS Antenna Kit 1 Foot Y-Cable Modification		Customer Service Reference Drawing
1 FT Y Cable rev 003		
Not to scale - for reference only		Page 1 of 2
Best Print Size 8½ x 11		

## 1 Foot Y-Cable Modification Details

**Purpose:** Instructions for producing a 1 Foot Power Y-cable to be used with a Humminbird external GPS antenna connected to a HELIX display

### Parts Required:

1 each PN 408920-1 AS GRP or PN 408400-1 AS GPS HS Kit, GPS Antenna

### Directions for Y Cable Modification:

- 1.) Modify the Y Cable from the GPS Antenna Kit by cutting and removing the ACCY-COM connector.  
**Do not modify the GPS antenna cable.**
- 2.) From the bare cable end that was created by removing the ACCY-COM connector from the Y cable, strip back and remove 2 inches of the black outer PVC cable jacket being careful not to nick or damage the inner wires.
- 3.) Cut the Yellow wire, as shown in the diagram on page 1, leaving about ½ to ¾ inches of insulated wire.
- 4.) Cut the Orange wire, leaving about ½ to ¾ inches of insulated wire.
- 5.) Fold the cut ends back against the cable jacket.
- 6.) Secure and insulate the cut ends using heat shrink or insulation tape.
- 7.) Remove approximately 5/8 inches of the insulation from the Red wire for the power connection.
- 8.) Insulate the Shield wire with heat shrink leaving 5/8 inches of the end bare for the ground connection.
- 9.) Optional; create a 3 amp fused power extension cable for the routing power to the red and ground to shield wires that were created using the Y cable. The extension should be marine grade tinned copper 7 x 32 stranded 24 AWG minimum.
- 10.) Optional; On-Off power for the GPS antenna can be provided by purchasing a 3 amp minimum rated, single pole, sealed or water resistant switch, supplied from a third party source. This provides a power disconnect to help prevent draining the battery when the boat is left unattended.
- 11.) Configure the HELIX software settings as directed in the software setup below.

### Software Setup

Menu > Menu > Nav > **GPS Receiver Override;** Set to External GPS

### Optional:

Menu > Menu > Setup > **NMEA 0183 Output;** Set to OFF  
Menu > Menu > Views > **Self-Test;** Set to Visible  
Menu > Menu > Views > **Accessory Test;** Set to Visible  
Menu > Menu > Views > **GPS Diagnostic View;** Set to Visible