



Installation Instructions for R-CAM Cablehead

Follow these instructions to replace a cablehead on an R-CAM system

Remove old cable head from winch:

In order to get a good connection for the new cable head it is best to cut the blue cable at least 3' from the existing cablehead. After cutting the cable check core & shield of cable to make sure it has a bright metal color and is free of corrosion. If corrosion is still present cut 1' off at a time checking each time until clean metal is found.

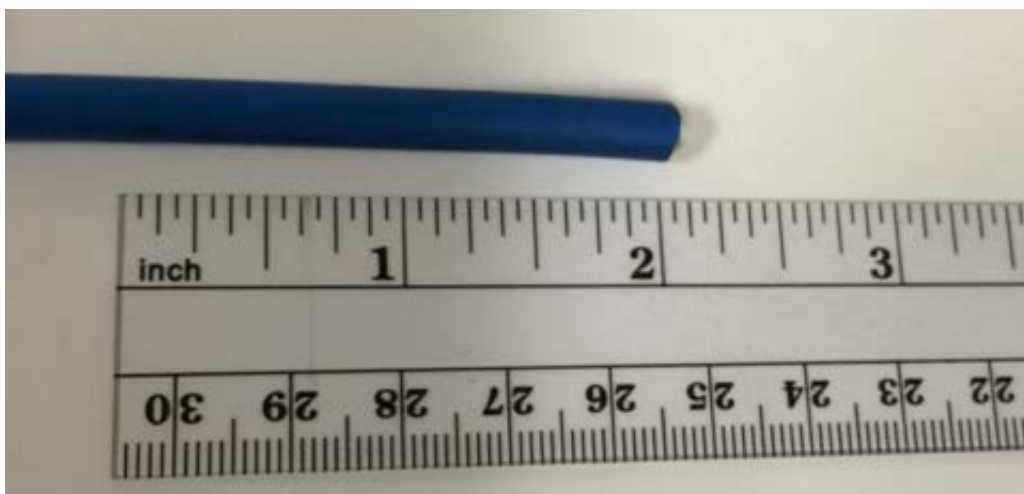
Prepare the Cable for new cablehead:

- A. Place a small amount of a lubricant like o-ring lube or WD40 on the blue outer sleeve of the cable and slide on the strain relief large end towards the end of the cable. See below



- B. Measure back 2 inches and strip the outer layer (Blue Sheath) of the cable off.

When removing the outer sheath be careful not to damage the Kevlar (white fabric strands) and DO NOT remove the Kevlar, leave it intact



- C. Remove the plastic cover off the shield and separate the shield from the inner conductor. Twist shield braid as shown and pull Kevlar strands back as shown below.



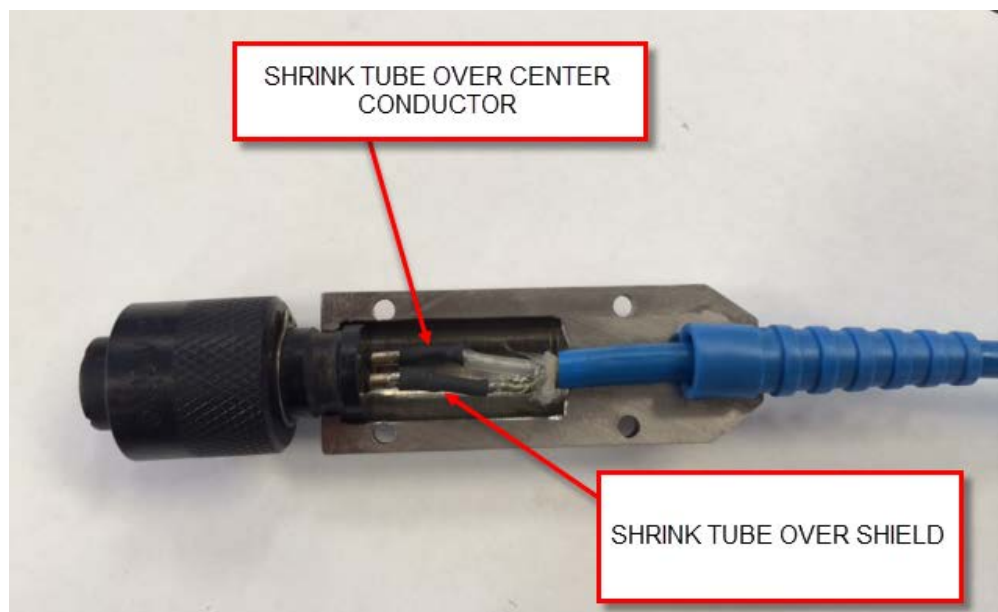
- D. Measure and trim the excess wire length by adding the connector to the inside of the cable clamp that has the threaded holes. See below



E. The wire lengths should be about 1 inch when finished trimming.

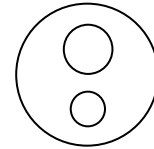


F. Slide a ½ inch piece of water tight shrink tube over the center conductor before soldering. It is not necessary to use water tight shrink tube on the shield. Use a small piece of 1/8 inch shrink tube to keep the shield from spreading and leave enough room exposed to slide into the connector.



NOTE: KEVLAR STRANDS NOT SHOWN FOR CLARITY

- G.** The connector has 2 different size contacts. Solder center conductor to pin #2 the smaller contact. Solder the shield to pin #1 the larger contact. After soldering the wires to the proper connectors slide the heat shrink up and over the solder joints and heat to set.



Larger connector is the shield

Smaller connector is the center conductor

- H.** Slide the strain relief up and lay the connector inside the cablehead shown below. Make sure the Kevlar is wrapped around the center conductor and the shield filling the cavity of the cable clamp.



- I. Now lay the mating piece to the metal cablehead clamp on top of the other side and screw them together as shown below. Use an alternating tightening method to make sure all sides have even crush.



- J. Wrap the cable head in black electrical tape as shown. Cut out over the two fill holes so they are exposed.



- K. Once the electrical tape is firmly in place you are ready to apply the 2 part epoxy. Squeeze the 2 part epoxy into the syringe supplied and mix quickly with a long thin tool. Fill the cable clamp completely full of adhesive till it pushes out the other fill hole. This must be done quickly for the epoxy sets up fast. Take a small hammer or blunt object and gently tap the cable clamp to remove any trapped air bubbles. Once the cable head is completely full let it settle for about 3 minutes and reapply epoxy if necessary. The adhesive has a set time of 5 minutes but requires 24 hours for full hardening. Once cable clamp has completely cured for 24 hours remove the electrical tape. Use a small blade to remove any excess epoxy from the fill holes. Your cable head is ready to use

