

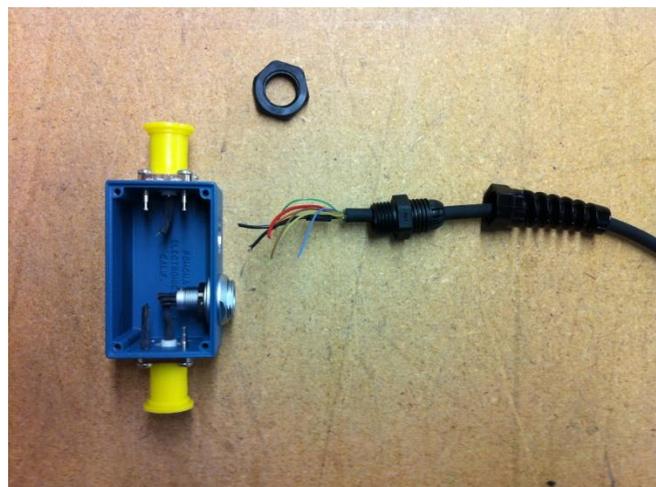
# Trimble NetR8/NetR9 Lemo Power Cable Fabrication Guide

To make a Lemo power cable for the NetR8/NetR9 is fairly easy if you use some of the extra accessories that come with a new receiver. When we build them here at Unavco we add an extra length of 2 conductor 16awg wire for added length and durability.

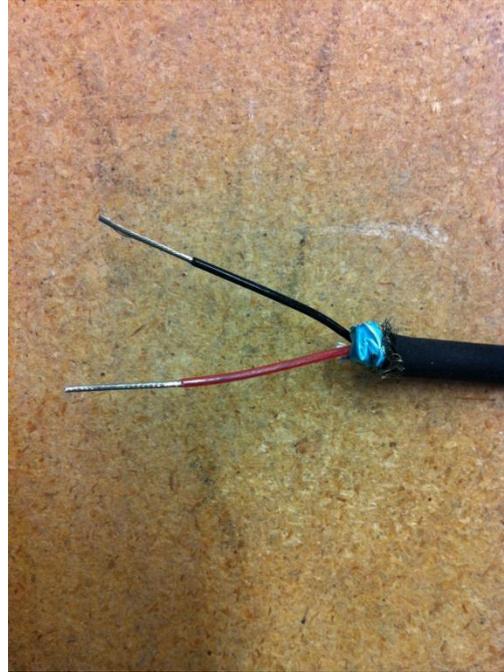
Remove the “event marker/PPS “ adapter from it’s packaging and also remove the faceplate that is held on with 4 small screws.



Next cut the wires inside the box as close to the female lemo plug as possible. This female lemo plug will not be used in the power cable but is quite an expensive item and could be used in another application in the future. Remove the black plastic nut inside the box to release the black cable, then unscrew and remove the two remaining black plastic pieces from the cable.



Trim off all of the extra wires from the black cable, leaving only the thicker Black(-) and Red(+) wires. You may need to strip a little more of the black cable to expose more of the two wires that we need.

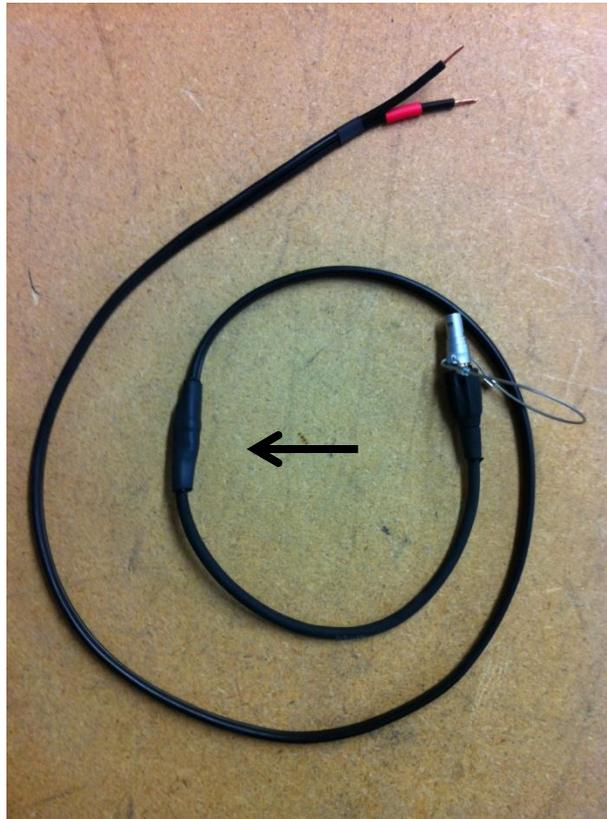


At this point the cable is ready to use, however I recommend adding an extra length of 16awg wire because the existing wires are quite small and short.

Twist the two stripped ends of the wire together and solder them to make a lasting connection. Cover both connections, I use small heat shrink sleeves.



Now straighten the wire out and use another larger heat shrink sleeve to hold the two wires in place



Make sure that you keep track of which wire is the positive(+). Once you have all of the heat shrink sleeves on, it is difficult to test. You can now use the female lemo plug to help with the testing, just plug it onto the top of the male lemo and use the exposed wires to test continuity. I also clearly mark which wire is positive(+) with another red heat shrink sleeve.

