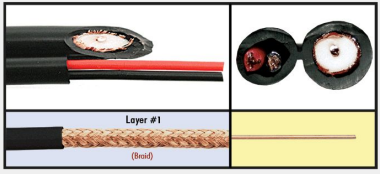





## Siamese coax with integrated power wire preparation

### WARNING NOTES

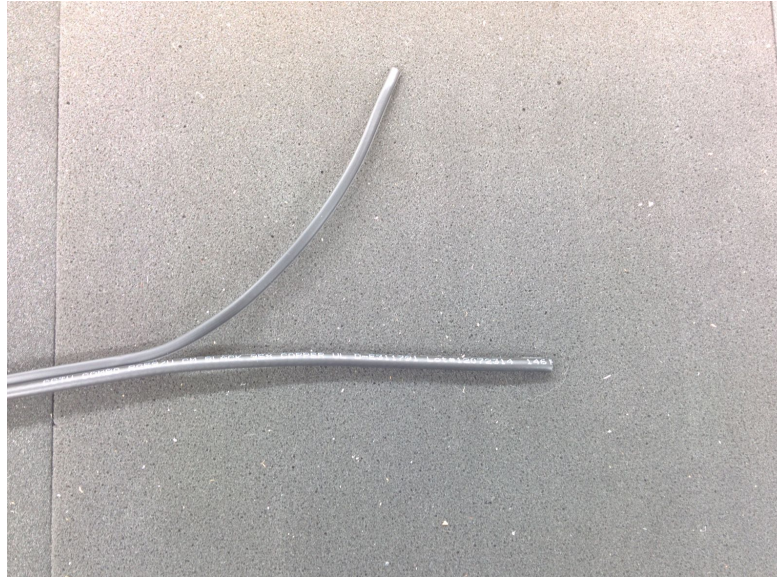
- Never attach power leads to a Power Supply box or power adapter while 120V AC power is applied. Always turn off or unplug the power source prior to any work being done. Failure to do so can result in damage to your equipment and/or bodily harm.
- DC power is polarity sensitive. You must make sure to maintain positive and negative connection completely through the circuit, from power transformer to the connected device or you will cause irreparable damage which will not be covered under vendor or manufacturer warranty.

### Tools & Parts

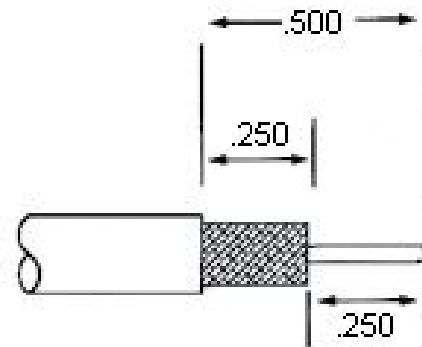
<p><b><u>MINIMUM REQUIRED</u></b> Knife Electrical tape</p>	<p><b><u>RECOMMENDED</u></b> Diagonal wire cutters or electricians pliers Wire stripper Multi-level RG59 coax wire stripper (PN SURVSTRIP) BNC compression tool (PN BNCCOMPTOOL) Blue wire nuts (14#-22# size) or crimp terminals Electrical tape</p>
	<p><b>RFT P/N: DSSCABLE</b></p> <ul style="list-style-type: none"> <li>• 500' spool in a box</li> <li>• RG59 Siamese combo video with 18/2 power wires, standard 95% copper center conductor and braided copper shield</li> <li>• UL® class 2 (CL2) cable</li> </ul>
	<p><b>RFT P/N: BNCCOMP</b></p> <ul style="list-style-type: none"> <li>• BNC compression fitting</li> <li>• Fits RG59 coaxial cable</li> </ul>
	<p><b>RFT P/N: CPIFUG882</b></p> <ul style="list-style-type: none"> <li>• Twist on male BNC fitting</li> <li>• Fits RG59 coaxial cable</li> </ul>
	<p><b>RFT P/N: CAMPWRCBL</b></p> <ul style="list-style-type: none"> <li>• Adapts 2 power wires to a DC barrel plug</li> <li>• Power plug dimensions: Outer 5.5mm / Inner 2.1mm</li> </ul>

## Coax cable preparation and stripping

1. If you are using Siamese coax with integrated power wires you will need to separate the insulated power wires from the coax (approximately 6 inches) prior to stripping your coax wire.



2. Start your coax wire strip by cutting only the outer black insulation  $\frac{1}{2}$  inch back from the end of the coax being careful to expose, not cut, the wire braid, white insulator and center copper wire underneath. If the wire braid is cut off flush with the black insulation you will need to start again.
3. Next cut  $\frac{1}{4}$  inch from the end of the wire and remove both the wire braid and white insulator. Do not cut the center wire.



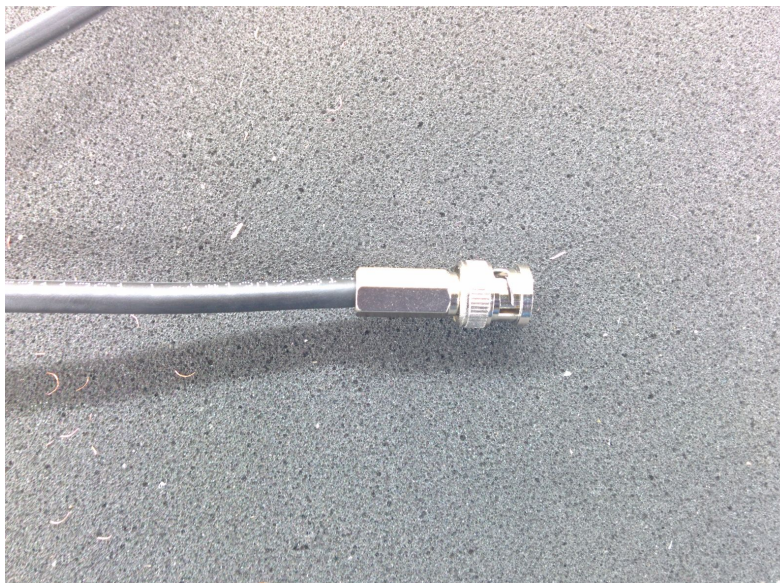
- Using a multi-level coax wire stripper similar to the one below, will do all of the wire prep in one step.



- Twist the wire braid to draw it back from the edge of the white insulation. Remove any strands of the wire braid that are touching the center copper wire.

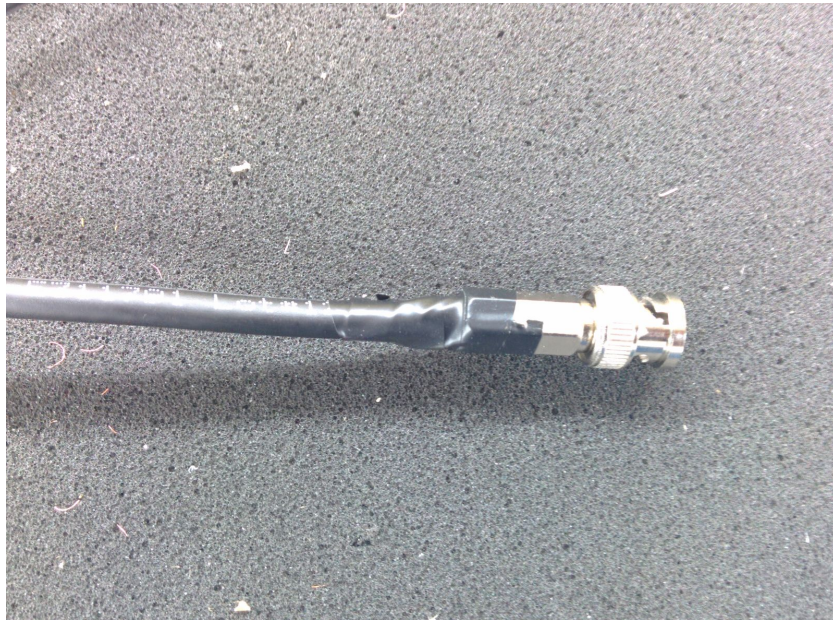
## Coax termination with Twist on BNC fitting

- Slowly push your BNC connector down over the wire you just trimmed and slowly twist until it is tight.





2. Once the BNC connector is tight wrap several inches of electrical tape tightly around the lower half of the BNC connector and coax cable. This step will keep the BNC connector from loosening over time.



## Coax termination with Compression BNC fitting

1. Slowly push your BNC compression connector down over the wire you just trimmed until the cable is fully seated with the braiding visible in the clear window on the BNC fitting.



2. Place the assembly in your BNC compression tool and slowly compress.



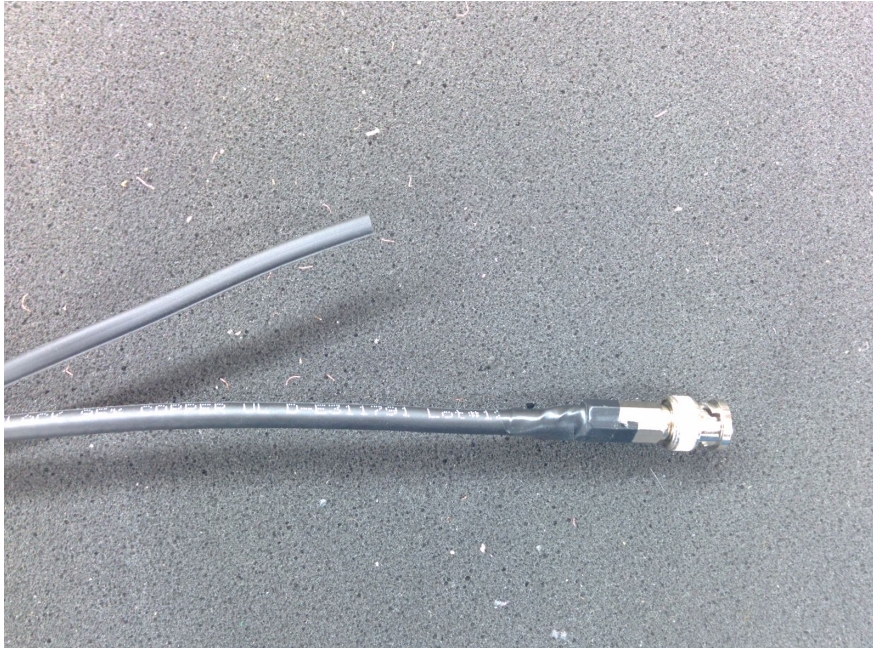
3. Verify the connector is fully compressed. The clear window should no longer be visible.



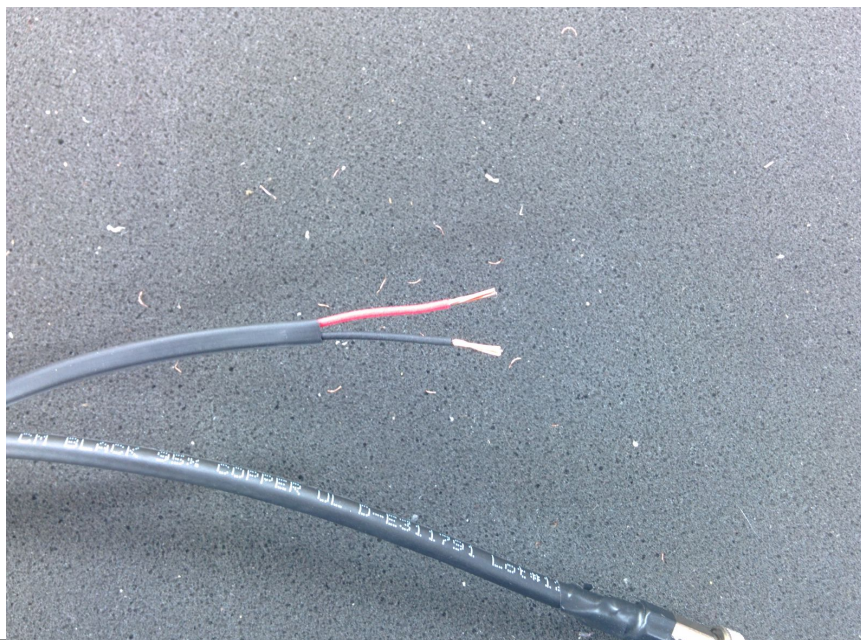


## Power wire preparation, stripping and termination

1. If using Siamese cable cut the power wires/insulation back approximately 3 inches from the completed BNC fitting.



2. Carefully cut away approximately 1 inch of the outer black insulation from the power wires and remove approximately 1/2 inch of each of the colored wires insulation to expose the braided copper power wires.

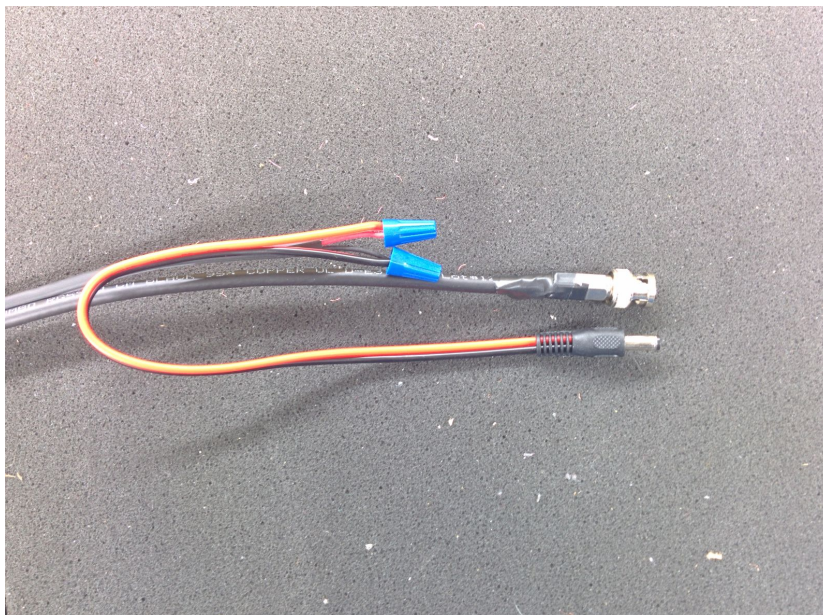




3. Place the two wires of your DC power plug adapter parallel to the two Siamese power wires. Match colors to maintain polarity through the system. Typically the power wire adapter will have red and black leads. Red is positive and black is negative.



4. Using electrical tape, at a minimum, wire nuts or crimp connectors attach the wires together and fold the power wire adapter back so the DC plug is next to the BNC connector.





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5. As neatly as possible use electrical tape to wrap the individual wires (keep opposite colors separated) or electrical connectors used in the previous step. Next wrap the power wire adapter to the coax cable to keep the power plug in place.

