

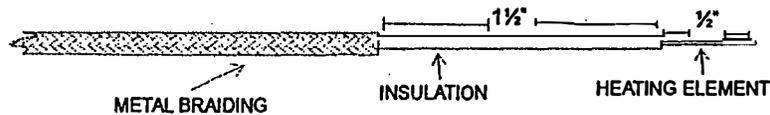
YOU WILL NEED THE FOLLOWING TOOLS :

- wire stripper (precision) for 30 awg to 14 awg wire
- small scissors (sharp edges)
- soldering iron
- heat gun (for the heatshrink)
- small finishing pick (to strip the braiding) or finishing nail
- cutter

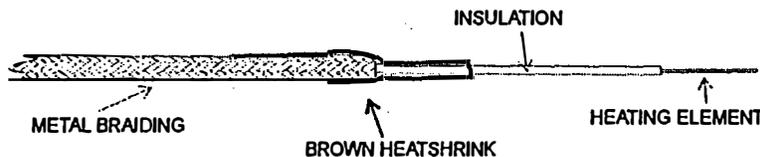
PROCEDURE

On each end of the cable to be repaired :

1. Remove 2 in (5,1 cm) of the metal braiding.
2. Remove ½ in (1,3 cm) of insulation on the wire. Make sure not to nick the heating element, which could eventually cause a failure.

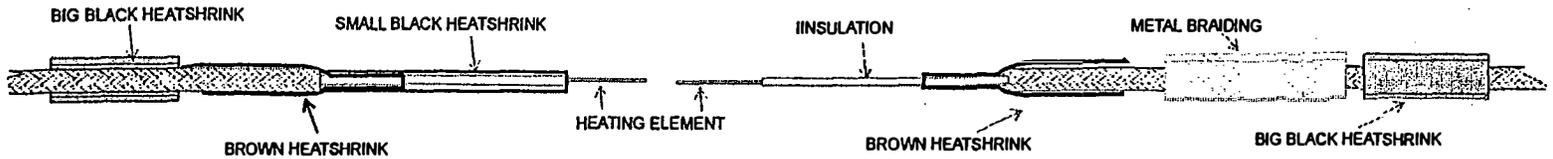


3. Insert a *brown heatshrink* over the metal braiding, center it between the end of the metallic braid and the heating element, pull on the braiding so straightens out, and heat the *brown heatshrink* in order to shrink it.



4. On each end of the cable, insert a *black heatshrink (large)* over the metal braiding.
5. Cut about 6 in (15,2 cm) of the *metal braiding* (from your repair kit), compress it on the support wire then slip the braiding on one of the two sides of the cable to be repaired.

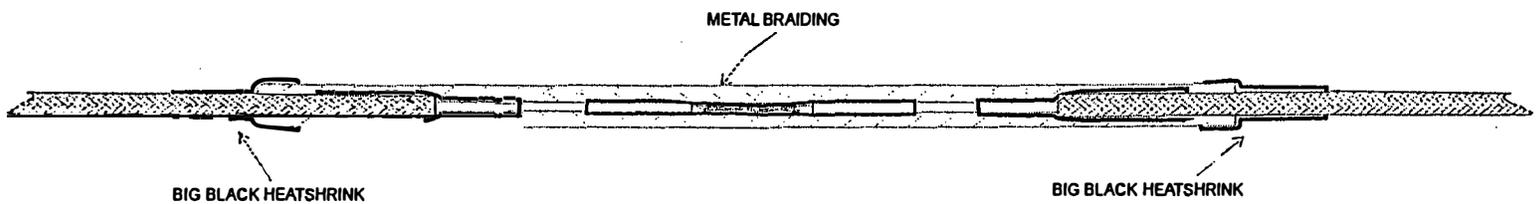
6. Insert the *black heatshrink (small)* that will be used to cover the welded joint.



7. Twist and weld the two ends of the heating element with the *soldering wire*, if necessary clean the soldered joint and file it to remove any cutting edge that could damage the heatshrink.
8. Slip the *black heatshrink (small)* over the soldered joint and heat it in order to shrink it. Ensure that the *black heatshrink (small)* partly covers the cable insulation partially on each side.



9. Slip the *metal braiding* over the repaired section and gently stretch it out. Then slip the *black heatshrink (large)* over each end of the metal braiding, center and heat.



Note : If the heating element is too short use a piece of the *heating resistance wire* (included in your repair kit) in order to join both ends (section 7). Measure the missing needed length, and add 1 in (2,5 cm). Strip ½ in (1,3 cm) on both ends. When the time will come to cut your metal braiding, add this length to the 6 in (15,2 cm) that is normally recommended. Since you will have to weld in two spots, you will need two *black heatshrinks (small)* (to be inserted at section 6).

It is not recommended to repair a cable in a curve, straighten it out first.