

Instructions for preparation of Scotchflex® 3659 Round Jacketed Flat Cable with shield

General

This round mass-terminable cable is constructed with repeating regions of wires bonded on .050" centers to facilitate mass termination. Removal of the jacket and shield can be accomplished as described or with similar tooling and techniques used with other round shielded jacketed cables.

Cable Cutting

The inner cable has repeating areas of split and unsplit lengths. For most efficient cable preparation, the cable should be cut near the end of a split area. To locate this area, bend the cable 180° with approximately 1 inch radius (Figure 1). The split area will tend to bend more than the unsplit area. Cutting as shown in Figure 1 will result in the maximum length of bonded are for termination.

NOTE: If unsplit area is difficult to determine, rotate cable slightly and re-form the 180° bend.

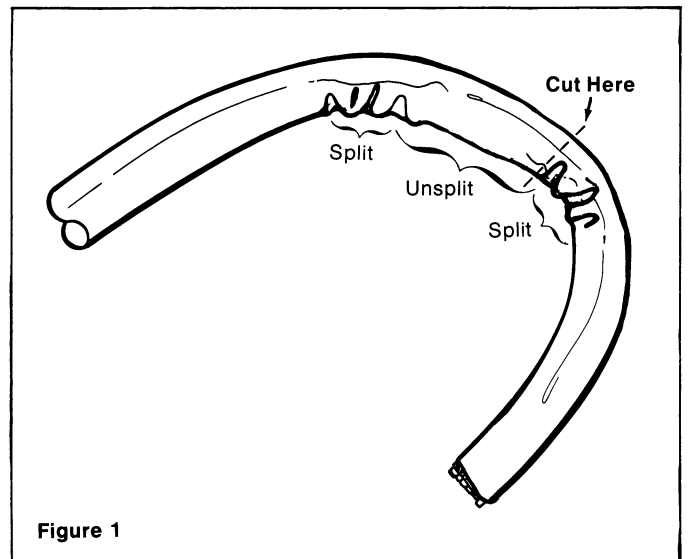


Figure 1

Jacket Removal

Determine amount of jacket to be removed and mark the cable. With a knife, razor blade or similar device, cut around the cable, taking care not to nick any conductors below the shield. With the same device, cut from the radial cut to the end of the cable and remove the jacketing.

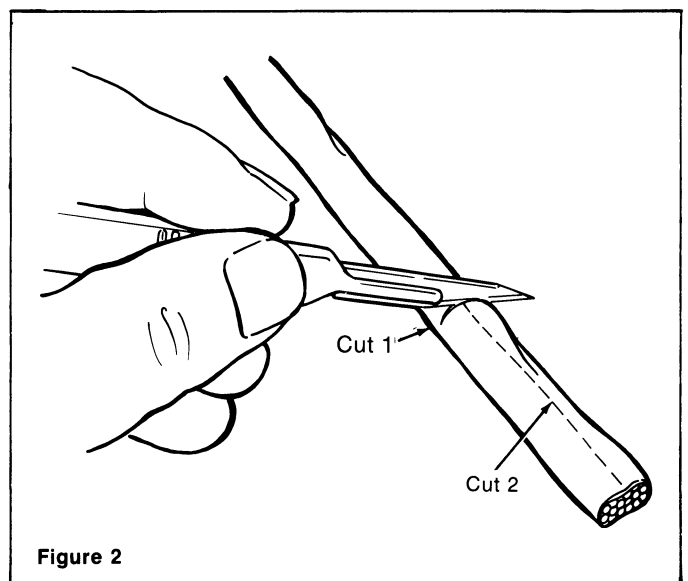


Figure 2

Shield Removal

Push the end of the shield onto the cable, causing the shield to balloon around the cable.

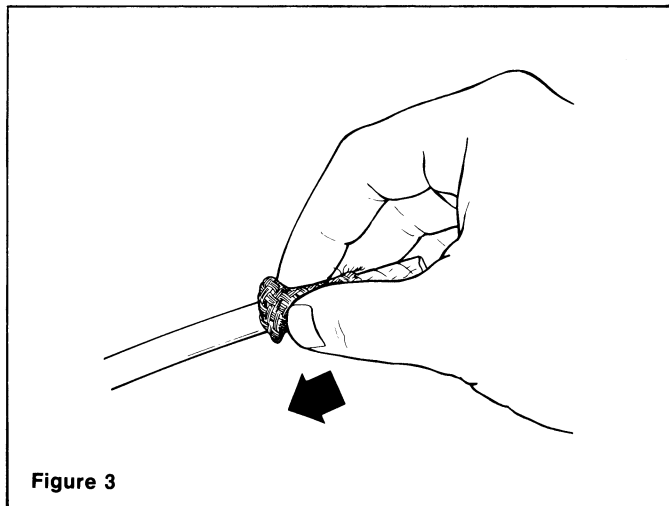


Figure 3

With a sharp tipped scissors, cut the shield around the cable, taking care not to nick the conductors inside the shield. (Figure 4) Slide the shield off of the cable end.

Unwrap the spiraled film foil and cut off.

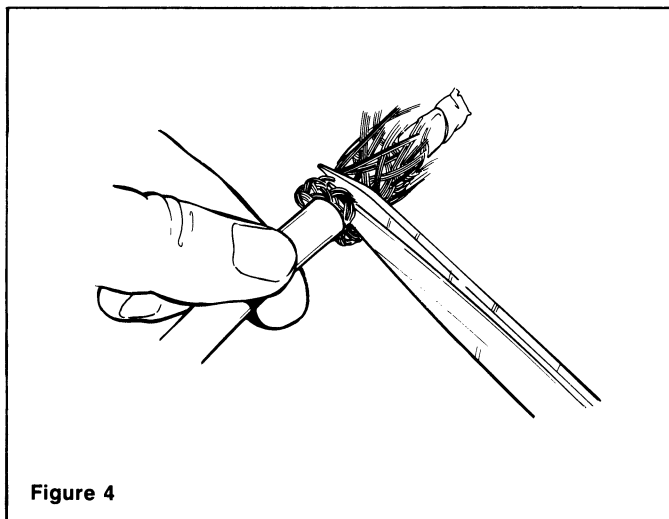


Figure 4

Cable Preparation

Unfold the unsplit section of the cable, restoring it to a flat configuration. To do this, bend the exposed inner cable into an "S" fold (Figure 5) to force the unsplit section into a flat configuration.

Using a 3M 3382 flat cable cutter, trim the end of the unsplit section square, removing any of the split section. The cable is now ready for assembly to any of the Scotchflex mass termination connectors.

NOTE: It is recommended that a strain relief be used with connectors terminating this cable.

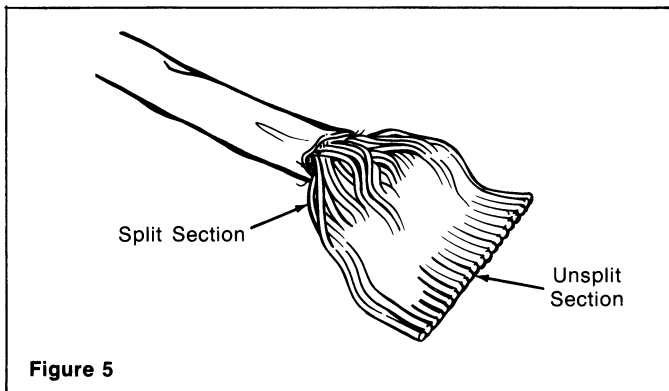


Figure 5

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