

TERMINATION INSTRUCTIONS

M85049/88 Connector Backshells, Adapters, and Backshells with Similar Banding Platform

The following procedures are based on Gore's best practices for terminating GORE® Cable Protection Systems with M85049/88 connector backshells, adapters, and backshells with a similar banding platform. These procedures should be used as a guide in conjunction with current backshell manufacturing instructions.

Preparing the Cable and Parts

1. Gather the tools and materials required for assembly and termination (Figures 1 – 6).
Please refer to the manufacturer for the correct size of band strap, shrink boot or heat shrink.

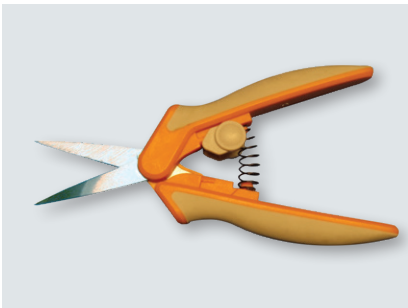


Figure 1: Cutters

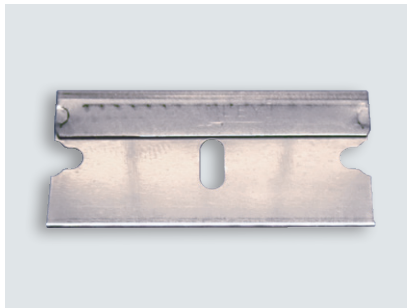


Figure 2: Razor blade



Figure 3: Banding tool

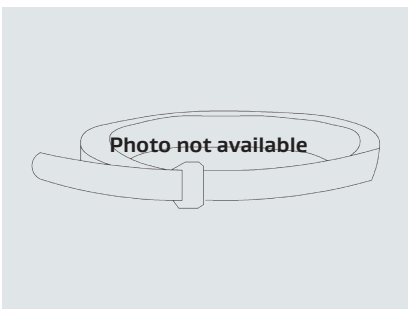


Figure 4: Band strap

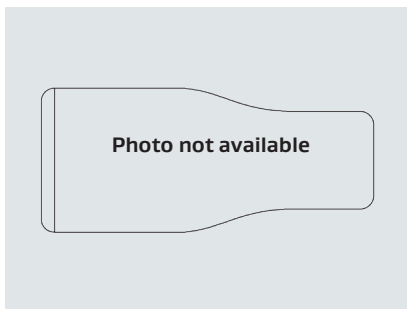


Figure 5: Shrink boot or heat shrink



Figure 6: Heat gun

Terminating Inside Cable Entry of Connector Backshell

1. Determine the overall length required for the cable protection system from connector face to connector face.
Cut the cable protection system to length with applicable tolerance.
2. Slide the heat shrink or shrink boot onto the cable protection system, near the first termination side (Figure 7).

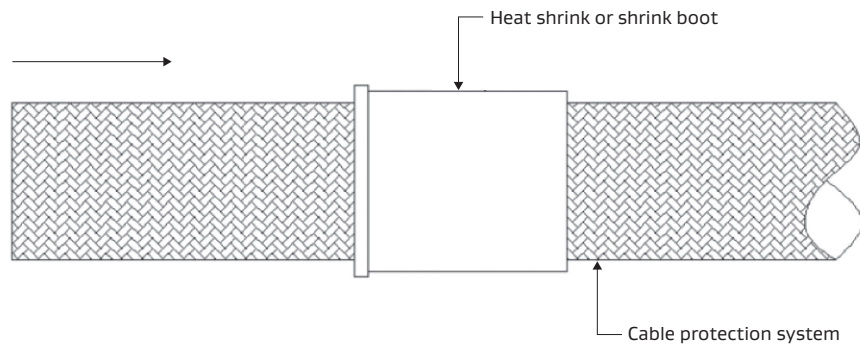


Figure 7: Sliding the heat shrink or shrink boot

3. Peel back the outer braided jacket (first layer) at 0.7 inches (17.78 millimeters), exposing the white ePTFE buffer underneath (Figure 8). Using a razor or equivalent, carefully cut the end of the white ePTFE buffer and clear or black plastic tubing at a maximum of 0.4 in (10.16 mm).

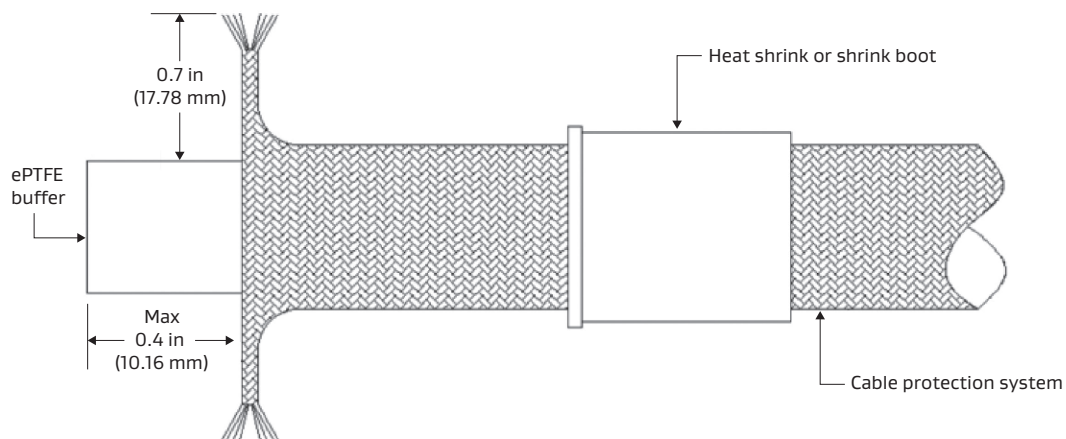


Figure 8: Peeling back the outer braided jacket

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4. Using a razor or equivalent, carefully make a small slit on the white ePTFE buffer down to the clear or black plastic tubing (Figure 9).

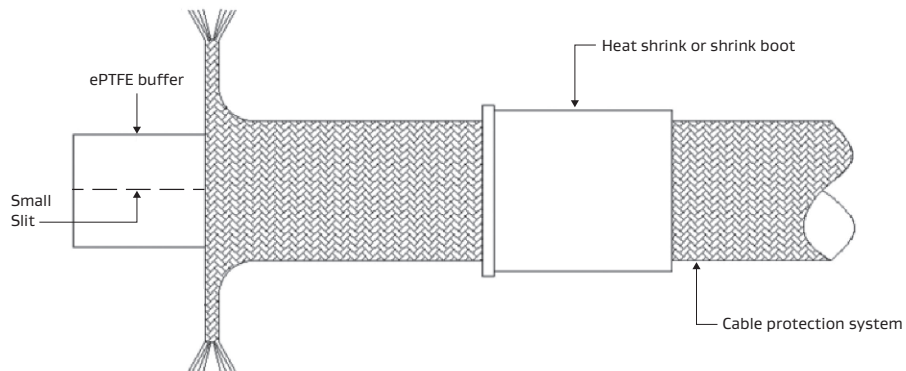


Figure 9: Making a small slit on the white ePTFE buffer

5. Using tweezers or fingers, unwrap the white ePTFE buffer (Figure 10).

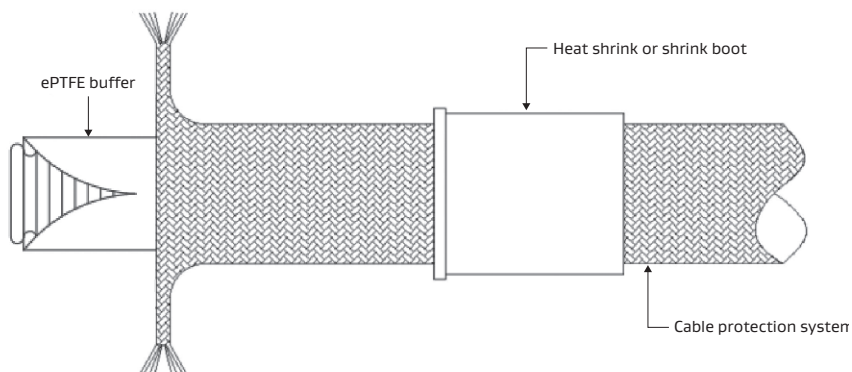


Figure 10: Unwrapping the white ePTFE buffer

6. Using cutters, carefully trim the white ePTFE buffer so that it is almost flush with the outer braided jacket, and the clear or black plastic tubing is exposed (Figure 11).

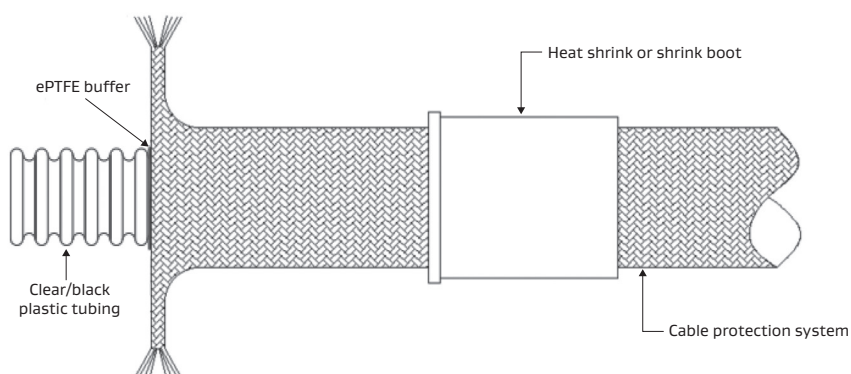


Figure 11: Trimming the white ePTFE buffer

7. Slide and adjust the connector backshell or adapter onto the clear or black plastic tubing and stop when it meets the outer braided jacket (Figure 12).

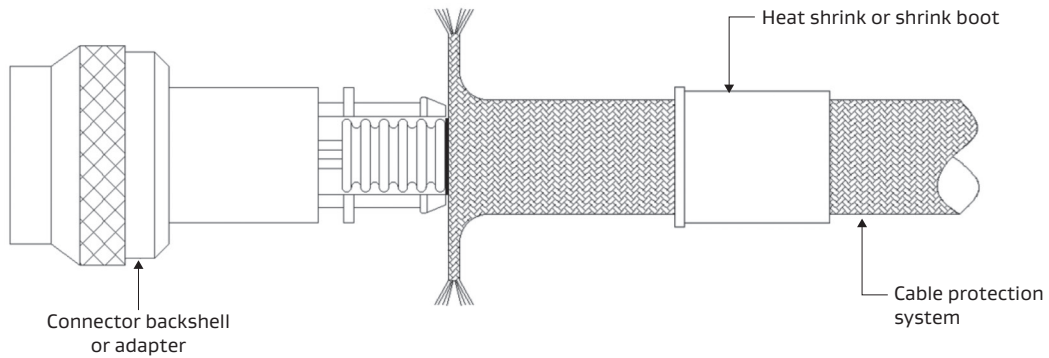


Figure 12: Sliding the connector backshell or adapter

8. Carefully place the outer braided jacket around the perimeter of the band platform on the connector backshell.
9. Slide the band strap to the approximate location on the outer braided jacket (Figure 13). Using the banding tool, band down the strap.

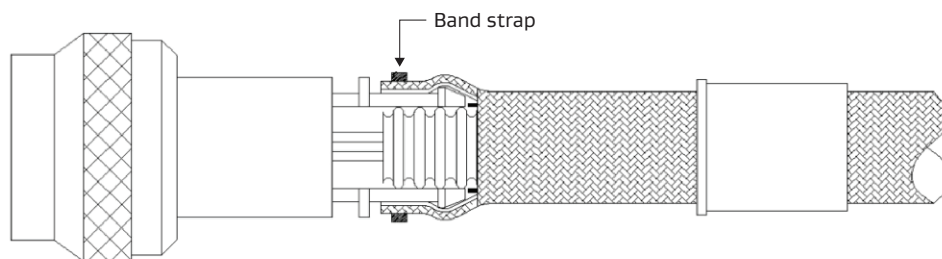


Figure 13: Sliding the band strap

10. Using the cutters, carefully trim the exposed outer braided jacket beyond the band strap.
11. Slide the heat shrink or shrink boot over the band strap (Figure 14).

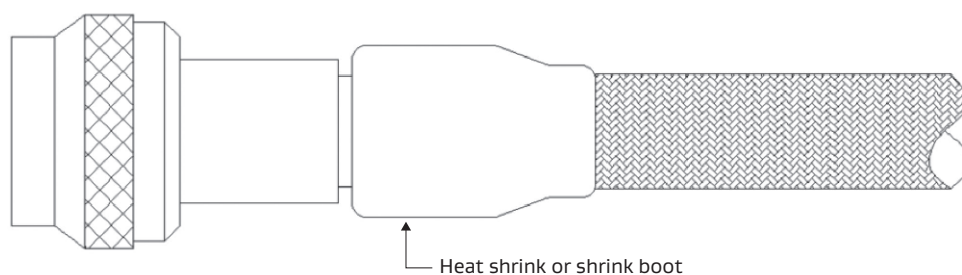


Figure 14: Sliding the heat shrink or shrink boot

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12. Using a heat gun, apply heat to the heat shrink or shrink boot at the recommended temperature and duration from the manufacturer (Figures 15 and 16).

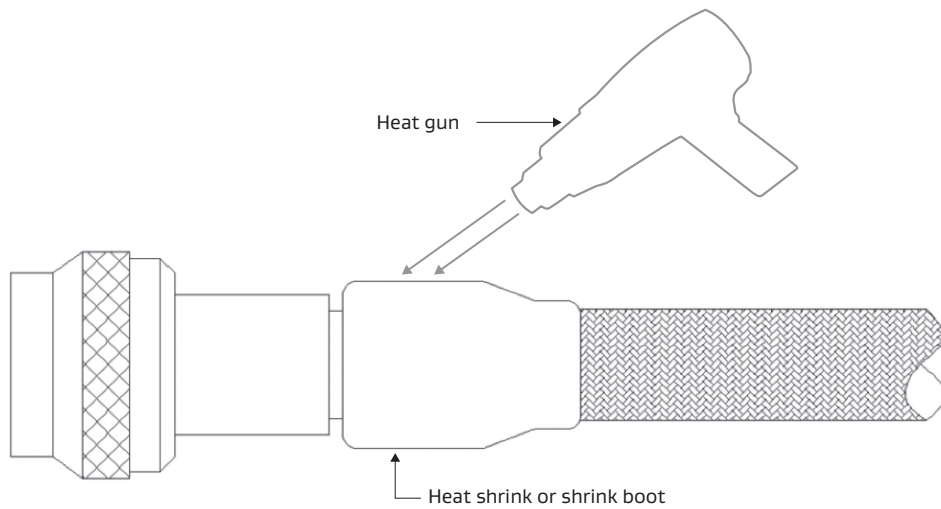


Figure 15: Applying heat to the heat shrink or shrink boot

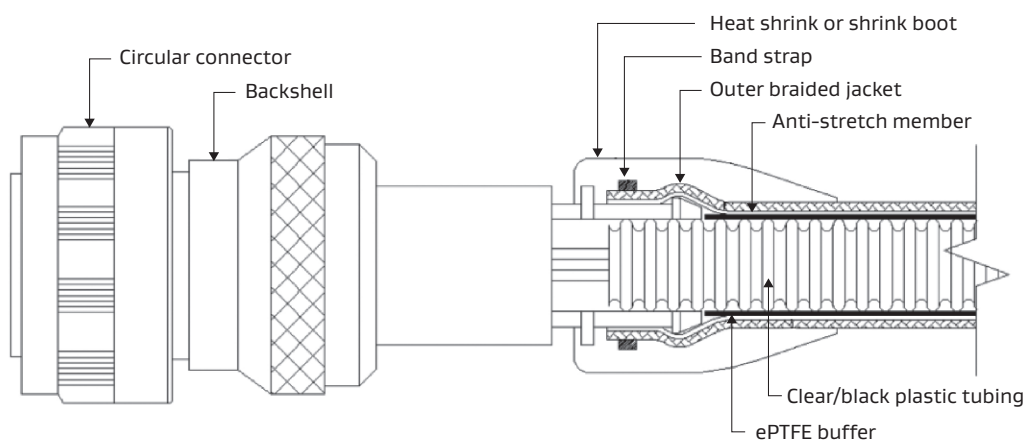


Figure 16: Final assembly cross-section

Terminating on Banding Platform of Connector Backshell

1. Determine the overall length required for the cable protection system from connector face to connector face.
Cut the cable protection system to length with applicable tolerance.
2. Slide the heat shrink or shrink boot onto the cable protection system, near the first termination side (Figure 17).

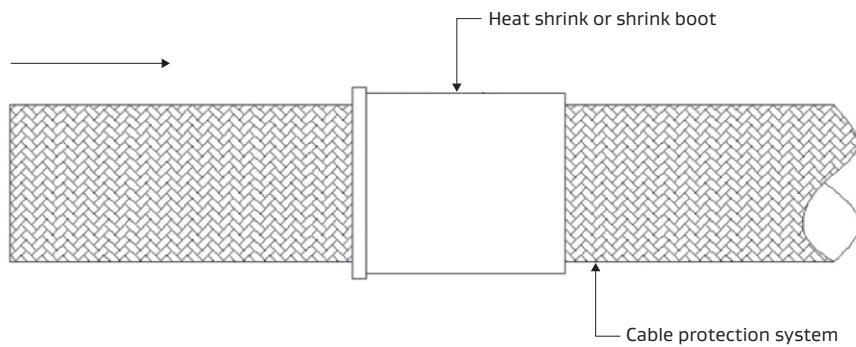


Figure 17: Sliding the heat shrink or shrink boot

3. Slide the cable protection system over the banding platform and apply band strap (Figure 18).

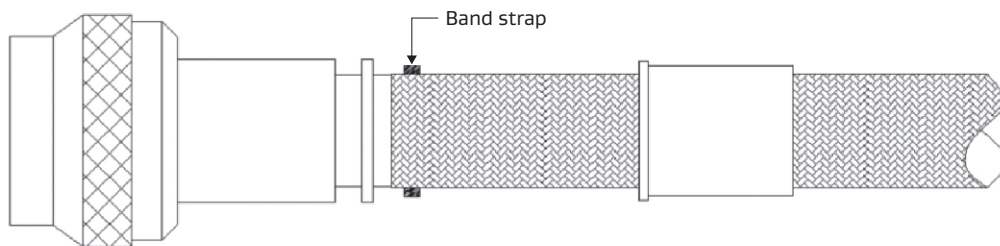


Figure 18: Sliding the band strap

4. Slide the heat shrink or shrink boot over the band strap (Figure 19).

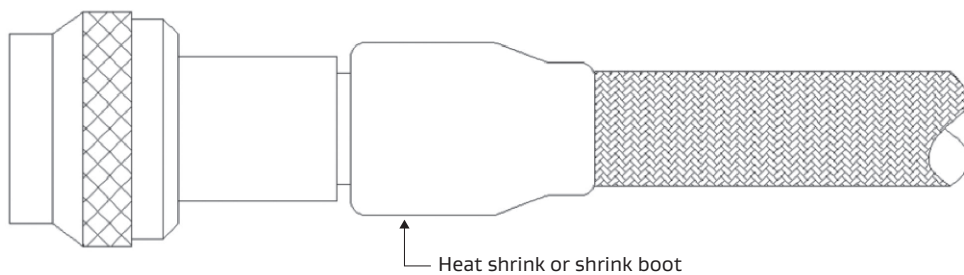


Figure 19: Sliding the heat shrink or shrink boot

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5. Using a heat gun, apply heat to the heat shrink or shrink boot at the recommended temperature and duration from the manufacturer (Figures 20 and 21).

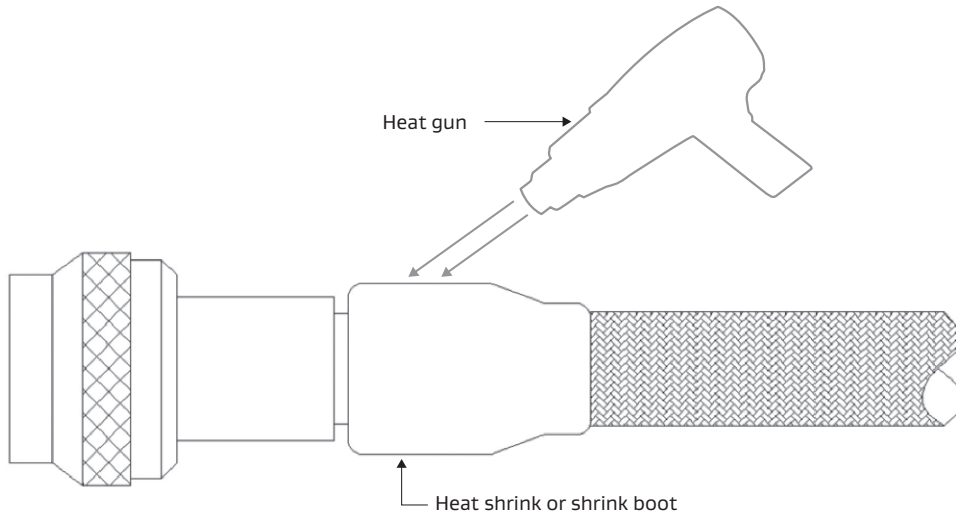


Figure 20: Applying heat to the heat shrink or shrink boot

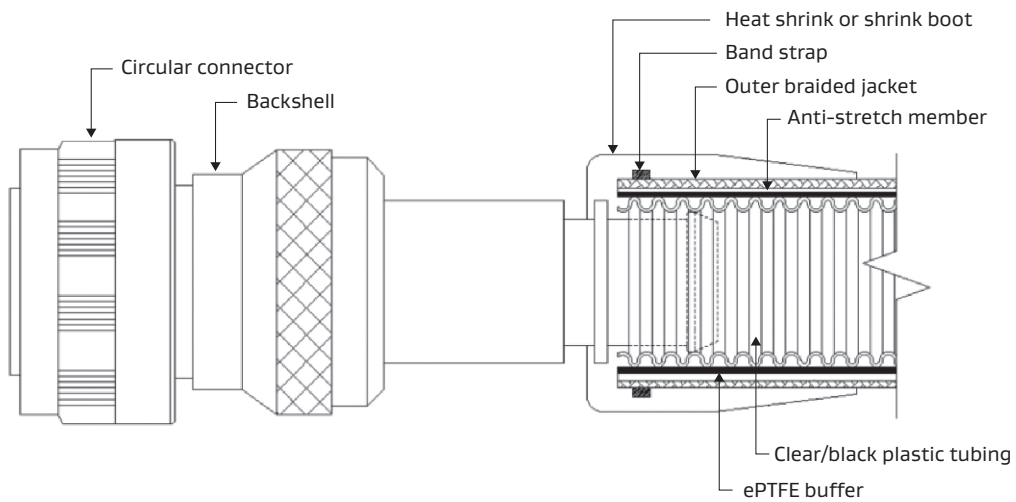


Figure 21: Final assembly cross-section

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