

CORNING

Furcation 432f Subunit Breakout for the 6912f Routable Ribbon Cable

P/N 004-296-AEN, Issue 2

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003-794

EDGE Solution

1. General Description: Bundling of Subunits

The 432f subunit consists of the following ribbon stack configuration:

- (4) 12f ribbons
- (14) 24f ribbons
- (4) 12f ribbons

Two options are available:

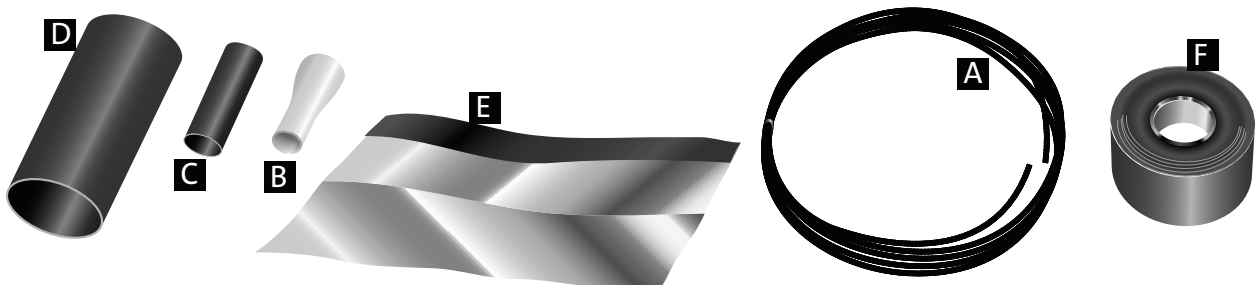
1. Break out to cable to (3) 144f bundles.
2. Break out to cable to (1) 288f bundle and (1) 144f bundle.

Based on ribbon stack:

1. (3) 144f.
 - Ribbons (1-4) 12f, ribbons (5-12) 24f = (144f)
 - Ribbons (13-24) 24f = (144f)
 - Ribbons (25-32) 12f, ribbons (33-36) = (144f)
2. (1) 288f and (1) 144f.
 - Ribbons (1-4) 12f, ribbons (5-24) 24f = (288f)
 - Ribbons (25-32) 24f, ribbons (33-36) = (144f)

2. Furcation Kit Contents HFC-FURC-KIT-6912

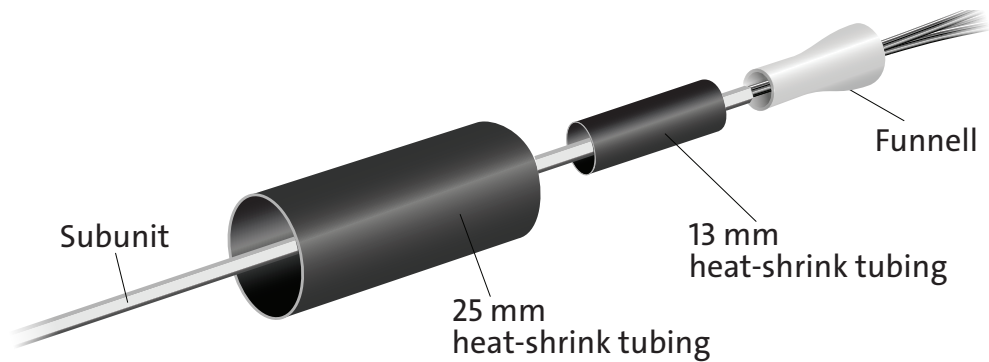
- | | |
|--|--|
| A. Braided mesh tubing (1/4 in.) ID | D. Heat-shrink tubing 25 mm (0.98 in) X 71.12 mm (2.8 in) L (18 ea) |
| B. Funnel (18 ea) | E. Adhesive aluminum foil 100 mm (3.94 in) X 250 mm (9.84 in) (9 ea) |
| C. Heat-shrink tubing 13 mm (0.512 in) ID X 50.8 mm (2 in) L (18 ea) | F. 130C Tape, 1.5 -in. 15 ft roll |



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3. Furcation Process

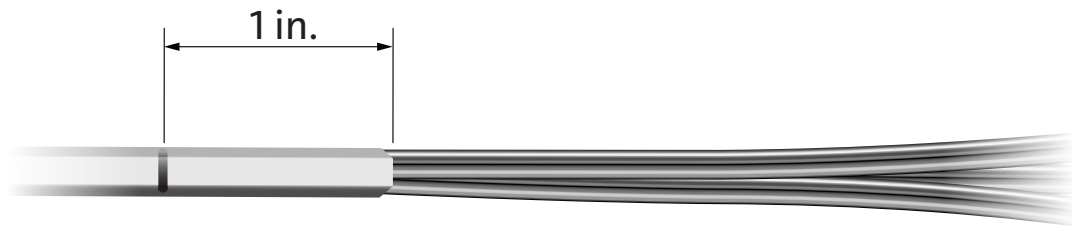
Step 1: Install 25mm heat-shrink tubing, 13mm heat-shrink tubing, and funnel in this order on to subunit.



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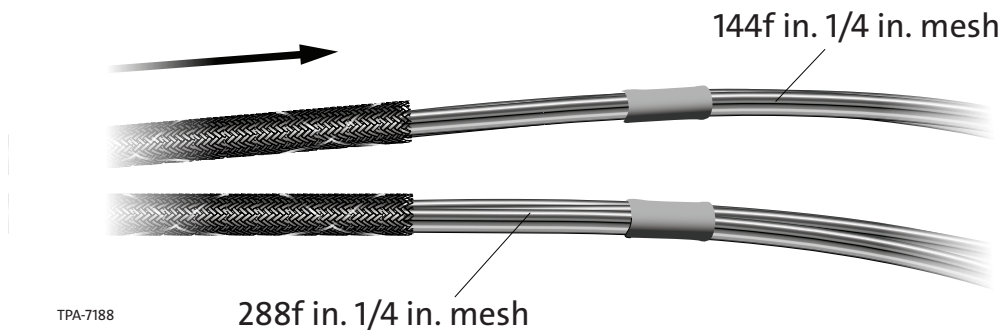
Step 2: Remove the subunit sheath for the desired length and bundle the 144f and 288f ribbons with tape every 12 inches. Maintain the order of the ribbons.

Step 3: Place a mark on the subunit 1 inch from the end.



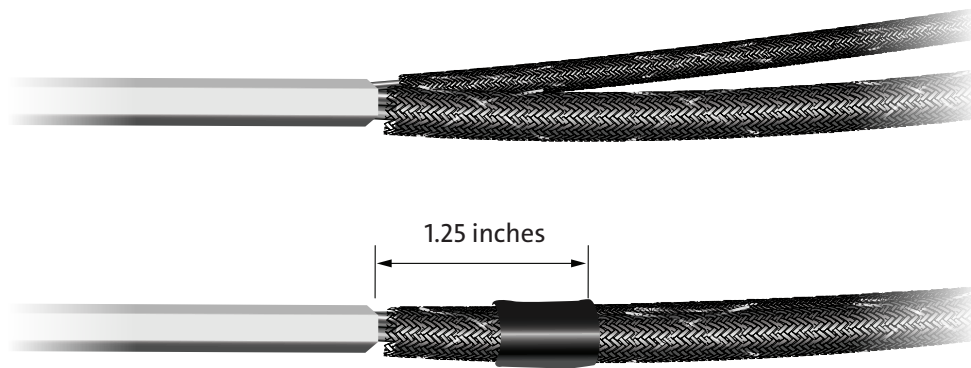
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Step 4: Install the mesh to the end of the subunit sheath.



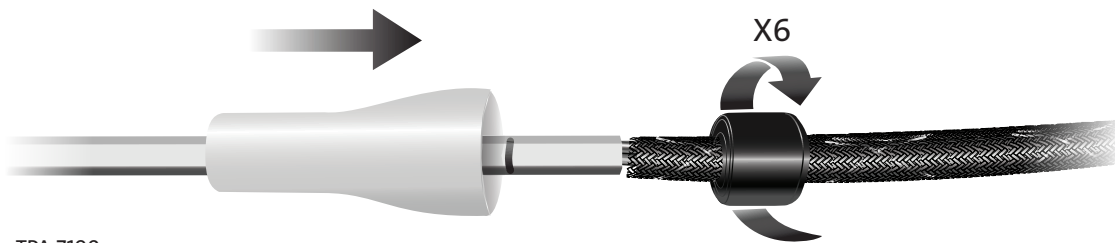
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Step 5: Apply one wrap of electrical tape 1.25 inches from the end of the subunit sheath.



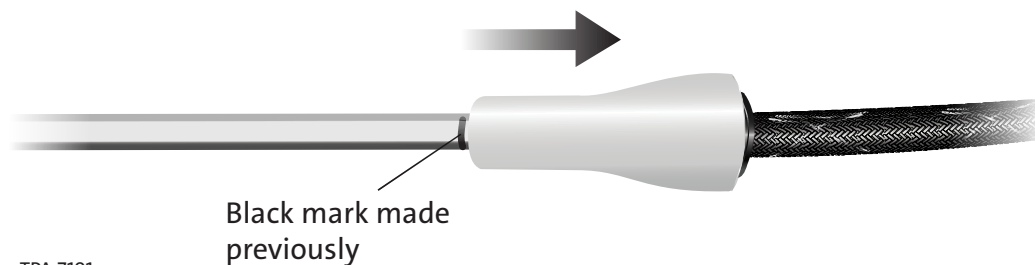
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Step 6: Cut 130C tape to 0.75-in width. Apply the 130C rubber tape over the electrical tape six times (approximately 9.75-in) to allow the funnel to slide over with a snug fit. The rubber tape should fit into the funnel with a very light force.



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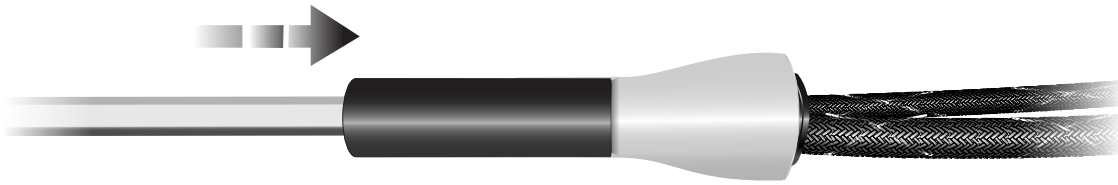
Step 7: Slide the funnel up to the mesh. The funnel should stop at the 1 inch mark on the subunit sheath.



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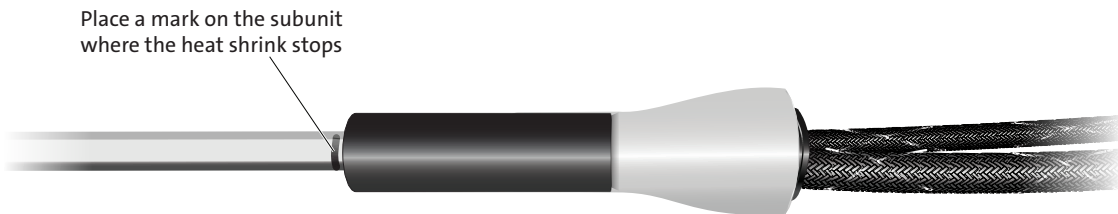
4. Apply the Heat Shrink

Step 1: Install the 13 mm heat shrink on the end of the funnel.



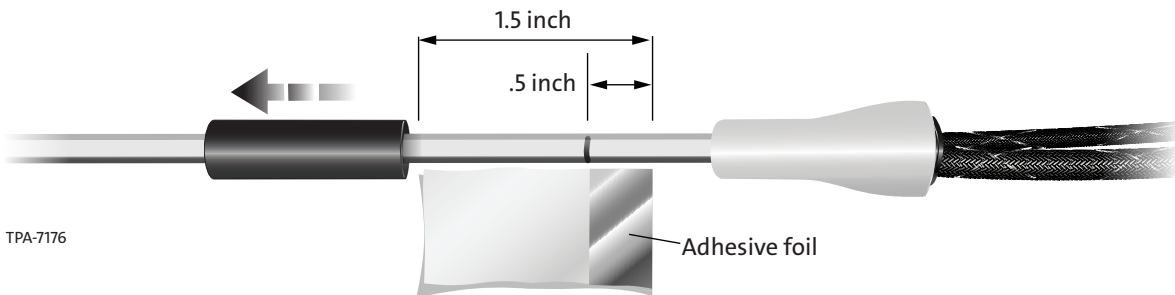
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Step 2: Place a mark on the subunit where the heat shrink stops.



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Step 3: Use the adhesive foil to prevent damage to the subunit during the shrinking process. Cut a piece of adhesive foil 1.5 Inches long.



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Step 4: Move the heat shrink away.

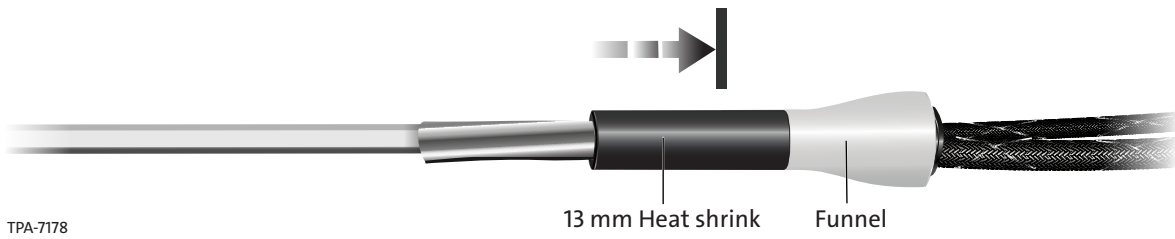
Step 5: Remove .5 inch of the backing and place at the mark on the subunit.

Step 6: Wrap the foil around the subunit.

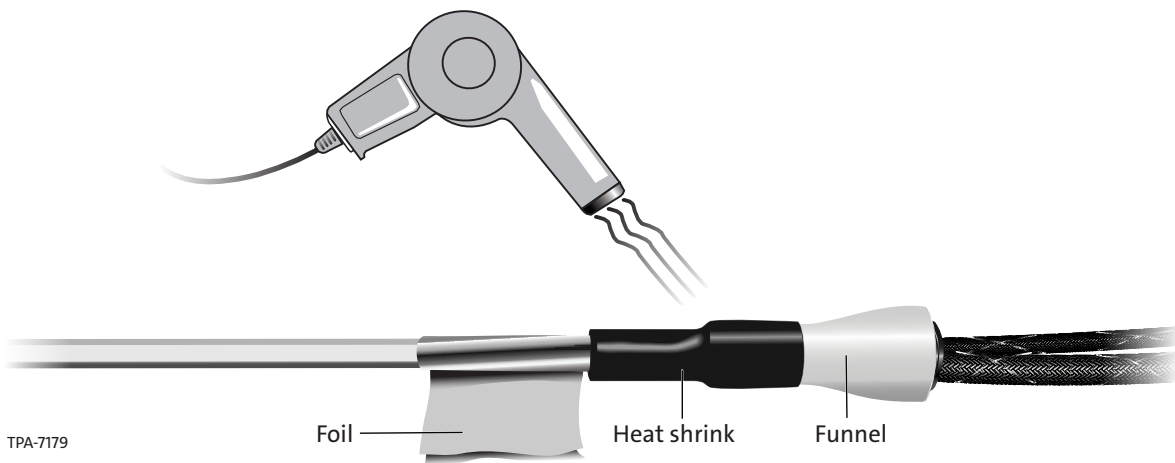


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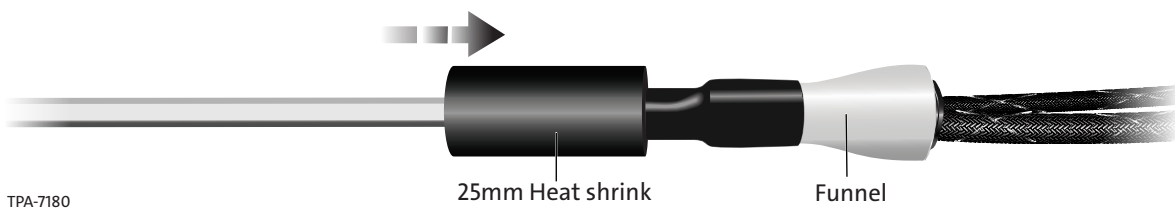
Step 7: Slide the heat shrink to the funnel.



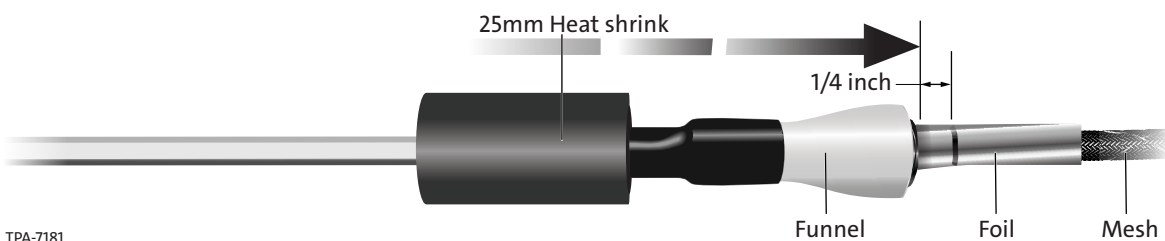
Step 8: Shrink the heat shrink and tear off the remaining foil flush to the end of the heat shrink.



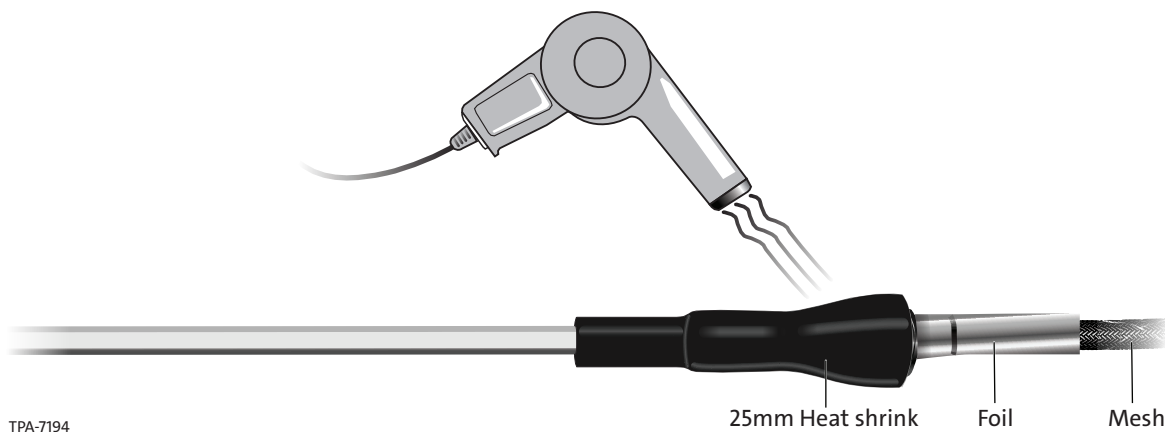
Step 9: Slide the 25mm heat shrink to the opposite end of the funnel.



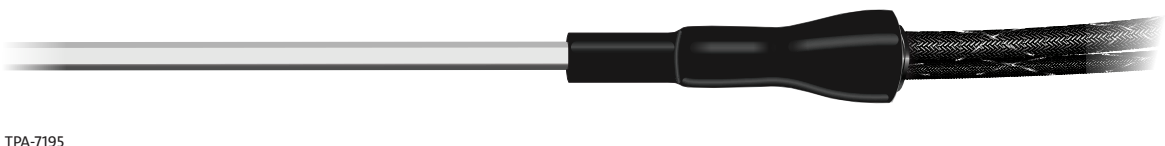
Step 10: Wrap foil over the mesh. Do not remove the backing. Mark the foil 1/4 inch from the rubber tape.



Step 11: Install the 25 mm heat shrink to the mark and shrink the heat shrink.



Step 12: Remove the foil.



Finished Furcation:

