

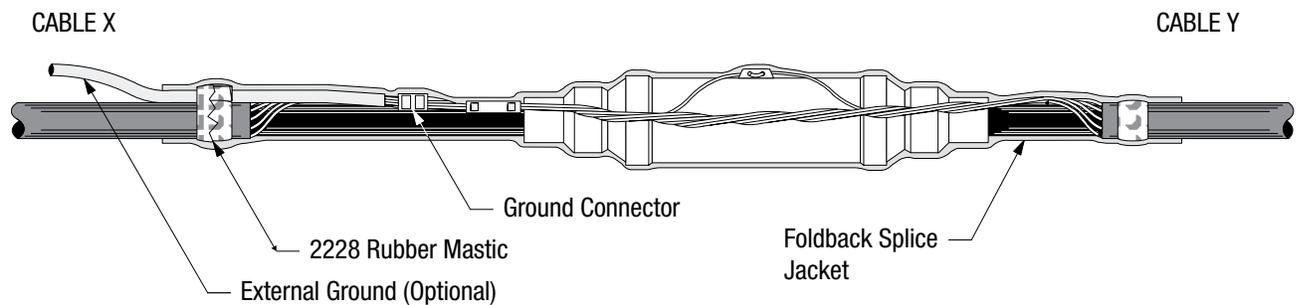
3M™ Cold Shrink Foldback Splice Jacket Kit

SJ-FB

Instructions

CAUTION

Working around energized systems may cause serious injury or death. Installation should be performed by personnel familiar with good safety practice in handling electrical equipment. De-energize and ground all electrical systems before installing product.



1.0 Kit Contents

- 1 Cold Shrink Foldback Jacket Assembly
- 2 Rolls of Scotch® Rubber Mastic Tape 2228
- 3 Mastic Strips
- 1 Instruction Sheet

Kit Selection Table

NOTE: Final Determination Factor is cable insulation diameter.

Jacket Kit	Minimum Cable Jacket O.D. Inches (mm)	Maximum Splice O.D. Inches (mm)	Maximum Cable Jacket Opening Inches (mm)	Works with 3M™ Splice Number			Approximate Parking Space Required Inches (mm)
				15 kV	25 kV	35 kV	
SJ-1FB	0.95 (24,1)	2.00 (50,8)	25 (635)	5411 5411A 5412	—	—	20 (510)
SJ-2FB	1.15 (29,2)	3.00 (76,2)	31 (787)	5403 5404 5405 5406	5420 5421 5422 5451 5451A 5452	5432 5461	22 (560)
SJ-3FB	1.55 (39,4)	3.62 (91,9)	34 (864)	5407 5408 5409	5423 5424 5425 5426	5433	24 (610)
SJ-4FB	1.75 (44,5)	4.10 (104,1)	32 (810)	—	—	—	24 (610)

Note: the above dimensions should be used to determine sizing for non-3M splices.

Table 1

2.0 Splice Jacket Kit Instruction

- 2.1 Prepare the cable according to splice manufacturer’s instruction. 3M recommends locating the neutral wire connector beyond one end of the splice body (see Figure 2). If an external ground is required, locate the ground connection off splice body.
- 2.2 Park the cold shrink jacket assembly onto cable X (cable with the largest jacket cutback) (Figure 1).

NOTE: The cold shrink jacket assembly may be moved as necessary during splice assembly.

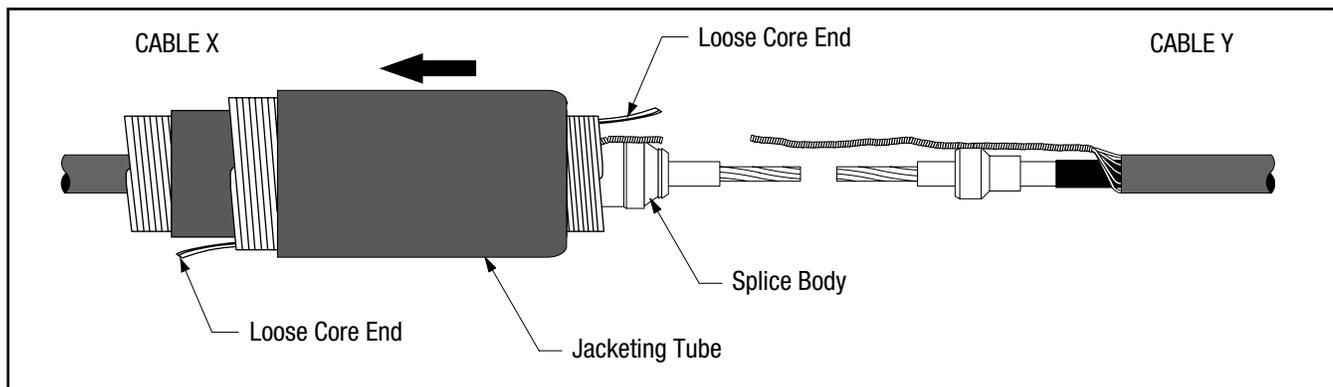


Figure 1

- 2.3 Install the splice body and all other splice components per manufacturer’s instructions.

3.0 Grounding (Optional)

Note: Use these instructions if circuit grounding is required at this location.

- 3.1 Connect a ground wire to the neutrals, in the area where the splice diameter is reduced. To protect the cable semicon, place a piece of cable jacket (removed during the cable preparation) under the ground connector. Ensure that the cable jacket piece does not touch the splice body. Keep connector profile as low as possible. For C-Tap or H-Tap connectors, position flat against the cable. (Figure 2)

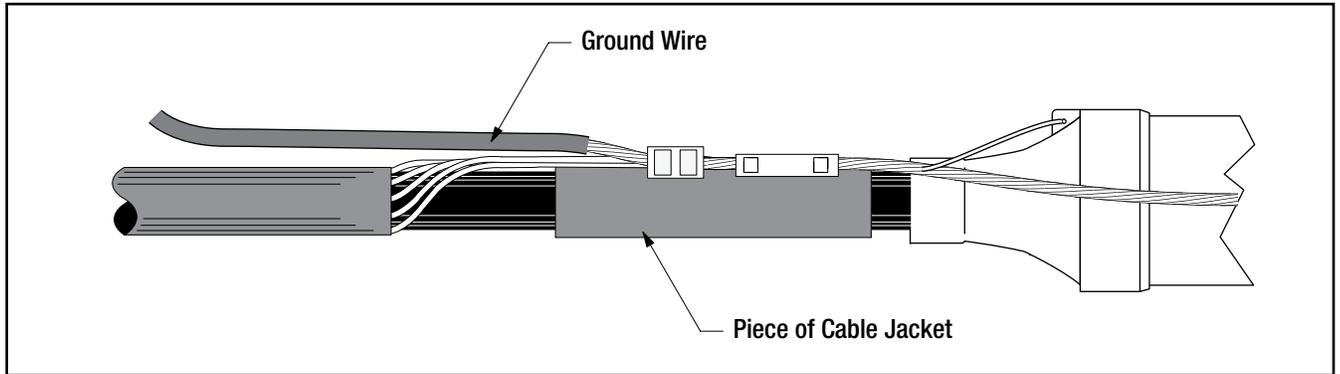


Figure 2

- 3.2 Cut one mastic sealing strip into two equal pieces. Place one piece on the cable jacket centered under the ground wire, near the jacket end (Figure 3).

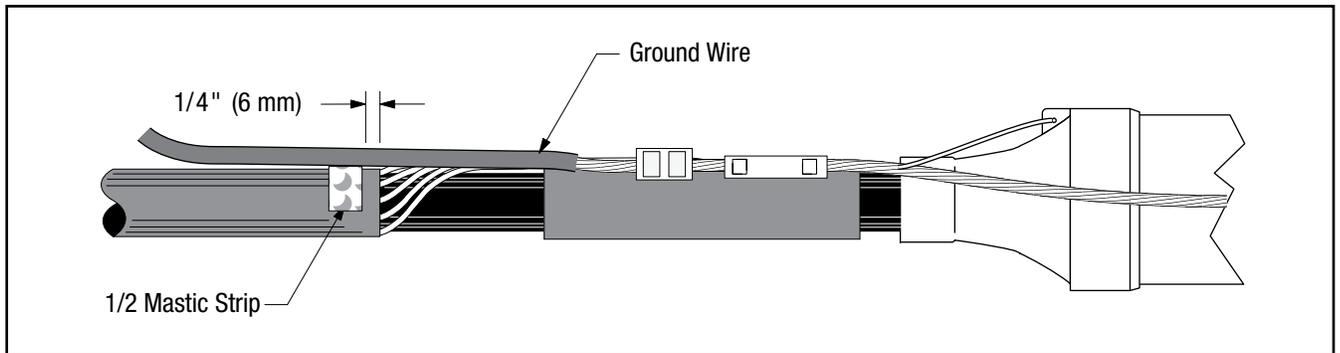


Figure 3

- 3.3 Remove the liner from one side of 2 mastic strips. Roll each strip into a tight roll as shown (Figure 4).

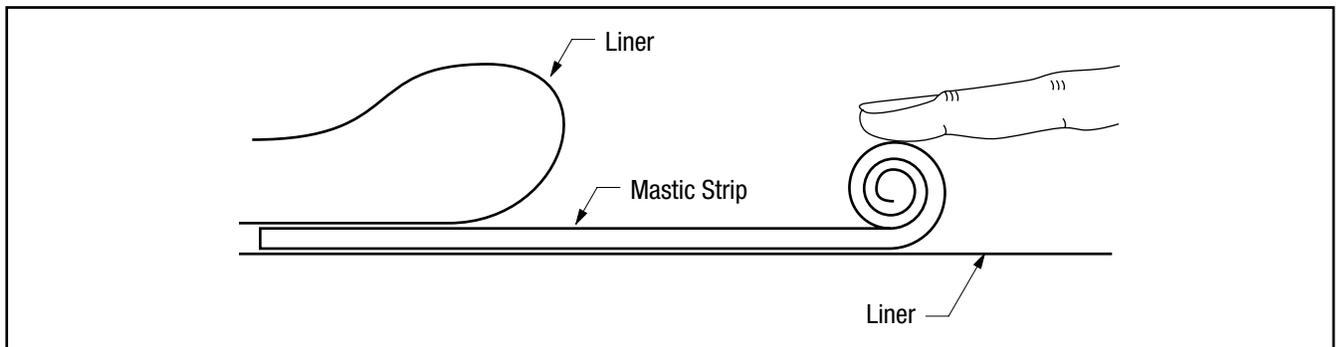


Figure 4

3.4 Place one small mastic roll on each side of the ground wire. Place the other half strip over ground wire and two rolls. Press-the mastic around the ground wire and to the cable jacket (Figure 5).

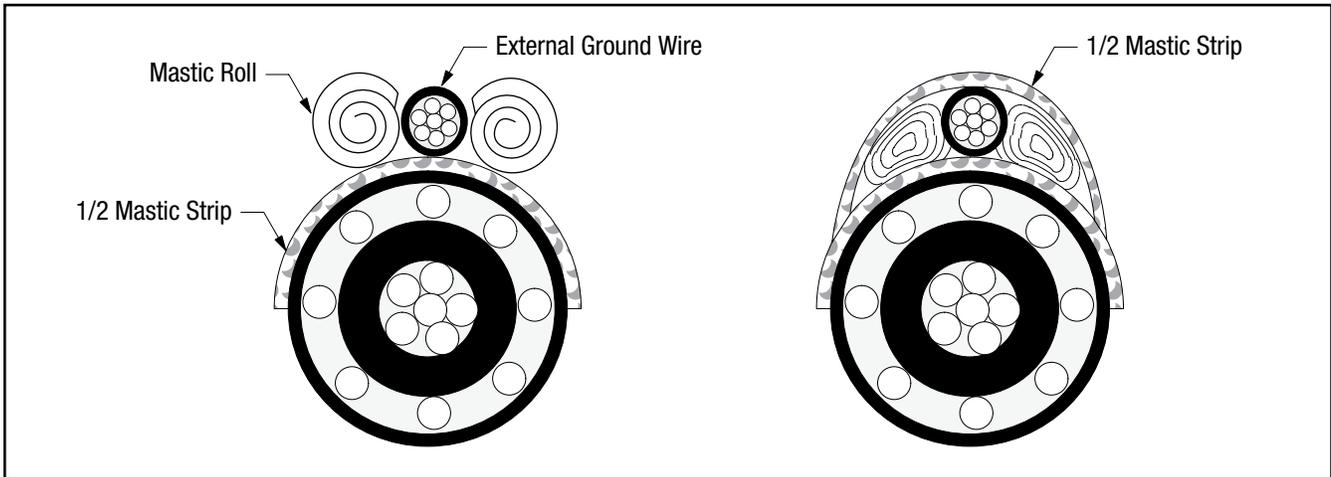


Figure 5

3.5 Overwrap the ground wire connectors with vinyl tape (Figure 6).

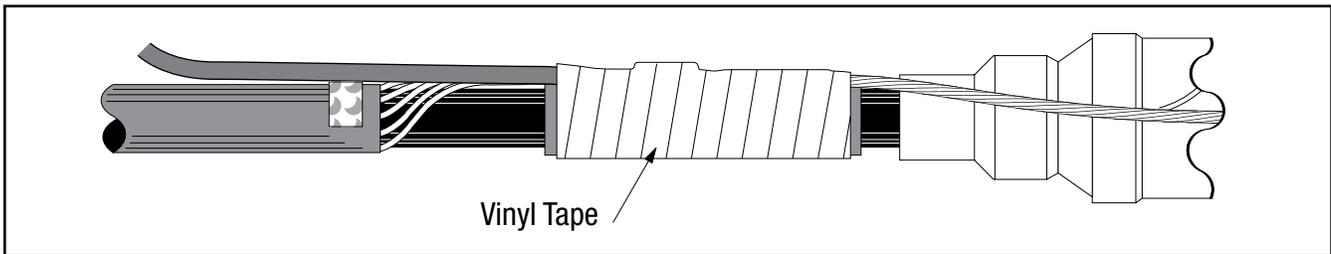


Figure 6

4.0 Install Jacket

Note: Jacketing is not optional.

4.1 Apply one roll of slightly stretched rubber mastic tape around each jacket end (tacky side toward cable). If ground wire is connected, apply tape over mastic sealing strips. Stretch and tear off the end of the rubber mastic (Figure 7).

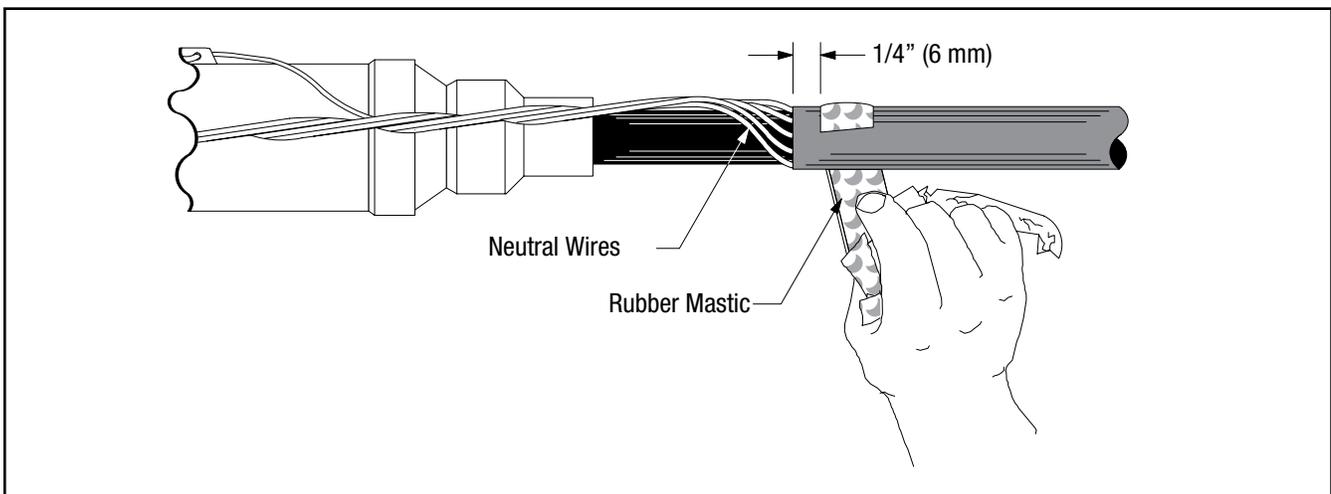


Figure 7

- 4.2 Begin to install the cold shrink tube by completely covering the rubber mastic, and slowly pulling and unwinding the inner core counterclockwise toward the splice body. The outer core should remain relatively stationary while unwinding the inner core. If the outer core begins to move towards the first mastic seal, gently pull the outer core and jacketing tube towards the second mastic seal and continue unwinding the inner core. (Figure 8)

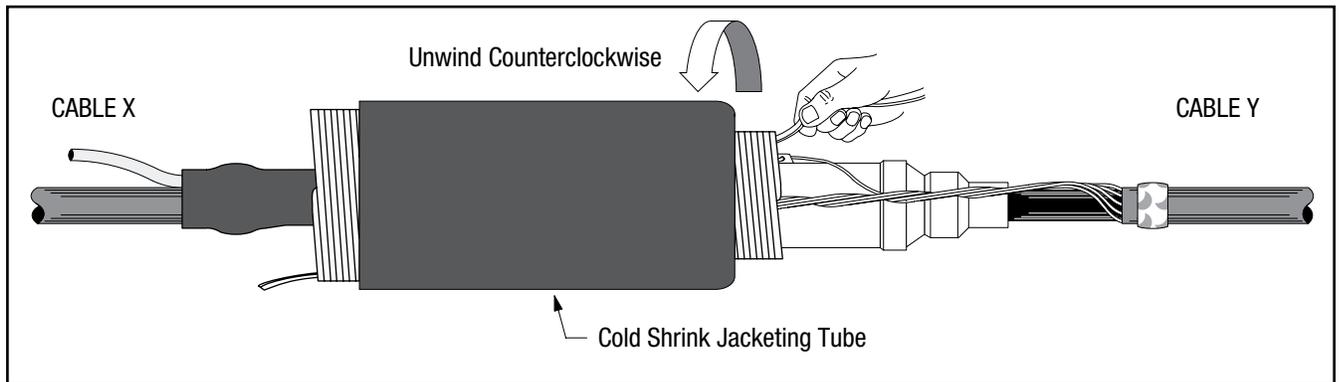


Figure 8

- 4.3 Continue to install the cold shrink tube over the rubber mastic on the other cable by slowly pulling and unwinding the outer core counterclockwise. This portion of the cold shrink tube installs differently than typical cold shrink products in that as the tube shrinks, the end rolls under. The tube may need a slight push to get over the second mastic seal. (Figure 9)

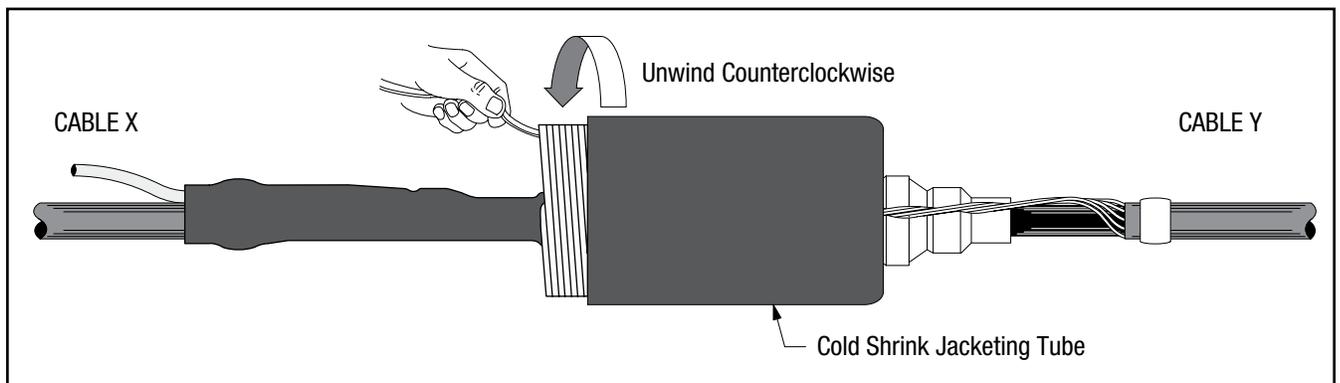


Figure 9

Note: In applications where the splice is regularly exposed to high levels of ultra-violet radiation (i.e. direct sunlight), wrap two half-lapped layers of Scotch® Super 33+™ Vinyl Electrical Tape or Scotch® Vinyl Electrical Tape Super 88 over the re-jacketing tubes.

Note: Connect optional grounding.

- 4.4 Completed Splice (Figure 10)

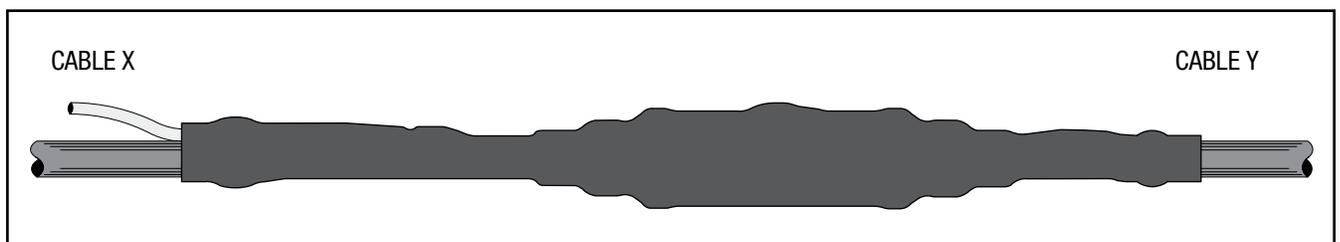


Figure 10

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