

## Quick Splice II

### Molded Rubber Splicing Kit

IEEE Std. No. 404-1986

25/28 kV Class

200 kV BIL

#### Kit Contents

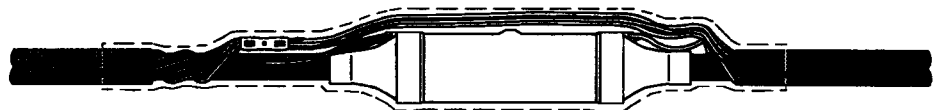
1 Molded Rubber Splice Body

2 Packets of Silicone Grease

1 Instruction Sheet



(CN) Cable



(JCN) Cable

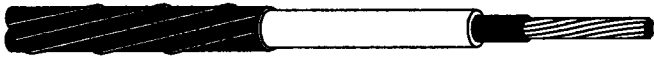
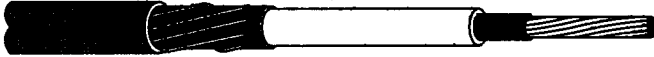

Accessory Splice Jacket

#### Selection Chart

NOTE: Final determining factor is cable insulation diameter.

Kit No.	Cable Insulation O. D. Range	Conductor Size	Cable Insulation Thickness
		AWG	mils
5451A	0.905 – 1.055 in. (23,0 – 26,8 mm)	2 Stranded	295
		1 Solid	295
		1 Stranded	280 295
		1/0 Solid	280 295
		1/0 Stranded	260 280 295
		2/0 Stranded	260 280

Table 1

 <p style="text-align: center;">Concentric Neutral Cable</p>  <p style="text-align: center;">Jacketed Concentric Neutral Cable</p>	<h3>3M Quick Splice II</h3>  <p><b>Molded Rubber Splicing Kit</b> for use on Concentric Neutral (CN) Cable and Jacketed Concentric Neutral (JCN) Cable (With Accessory Splice Jacket, e.g. 3M SJ or HSJ Series Kit)</p> <p><b>5451A</b></p>				
<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">ISSUE DATE: 7/9/93</td> <td style="width: 50%;">SCALE: Not to scale</td> </tr> <tr> <td>ISSUE: 2</td> <td></td> </tr> </table>	ISSUE DATE: 7/9/93	SCALE: Not to scale	ISSUE: 2		<h2>2047T-70</h2>
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## A. Prepare Cables Using Standard Procedures

1. Allow sufficient neutral wire length on Cable Y to jumper across splice. Locate neutral wire connection beyond end of splice body on Cable X end ❶ (Figure 1 shown on CN cable).

**NOTE:** If neutral wires are to be grounded at splice, also locate ground connection beyond splice body on Cable X end ❶ (Figure 1).

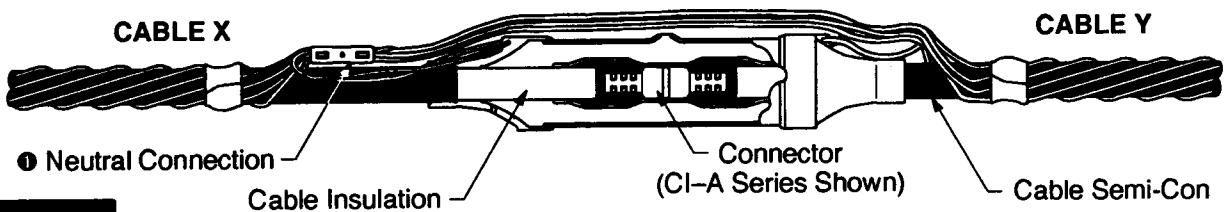
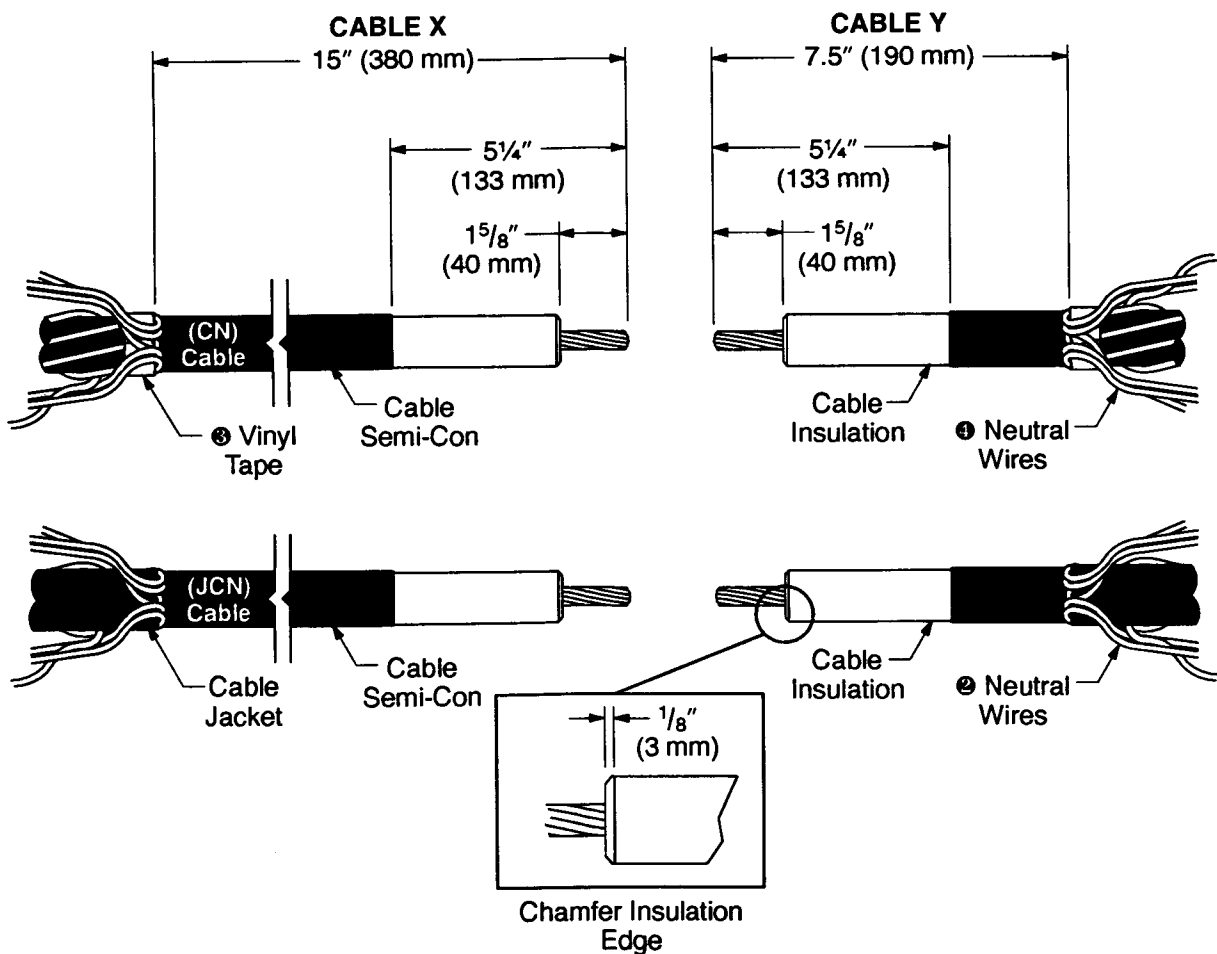


Figure 1

2. Gently fold neutral wires back over cable, ❷ (Figure 2) avoiding sharp bends. If cable does not have a jacket, bind neutral wires as shown with wire or vinyl tape ❸ (Figure 2) and fold neutral wires back over binding ❹ (Figure 2).
3. Continue cable preparation according to (Figure 2) below.

**NOTE:** Check dimensions using templates provided.

Figure 2



4. Clean cable using standard practice:

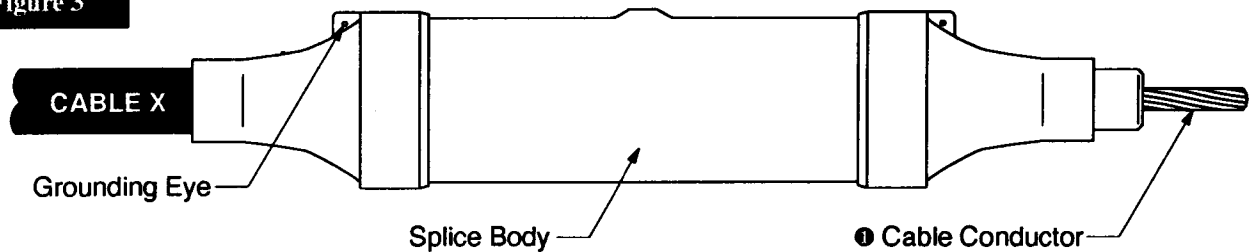
- a. Do not use solvent or abrasive on cable semi-conductive insulation shield.
- b. If abrasive must be used, do not reduce cable insulation diameter below the 0.905" (23mm) specified for splice.

## B. Installation (Shown on CN Cable)

1. Lubricate cable insulation and semi-con of Cable X and both ends of splice bore with silicone grease provided.
2. Slide splice body onto Cable X until the conductor is fully exposed ❶ (Figure 3). For easier installation, the splice body may be rotated while being installed.

**NOTE:** For Jacketed Concentric Neutral (JCN) Cables, the accessory splice jacketing should also be slid on cable at this time (e.g. 3M SJ Series or HSJ Series Tube).

Figure 3



3. Install CI connector (Connector Table) or other 3M approved equivalent. Crimp per the CRIMPING TOOL TABLE.  
**NOTE:** Do not crimp center of connector. Remove excess contact aid and file off any crimp flashing.
4. Place a tape marker on Cable Y semi-conductive insulation shield, 3/4" (19 mm) from end of cable semi-con ❷ (Figure 4).

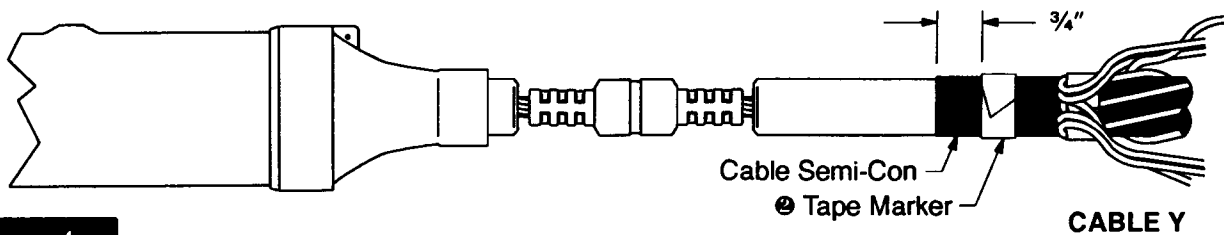
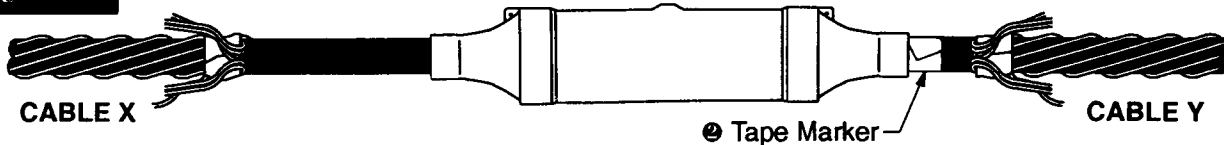


Figure 4

5. Lubricate connector and Cable Y insulation with silicone grease.
6. Center splice body over connector, so leading edge aligns with tape marker ❸ (Figure 5).

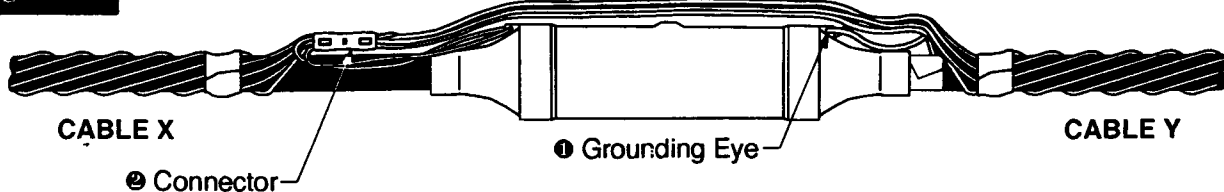
Figure 5



## C. Grounding Splice (Shown on CN Cable)

1. Position concentric neutral wires back over cable and splice. Attach one strand from each cable to its respective grounding eye, returning it back to the neutral wire bundle ❶ (Figure 6).
2. Join neutral wires using an appropriate connector. A low profile inline compression connector is recommended ❷ (Figure 6).

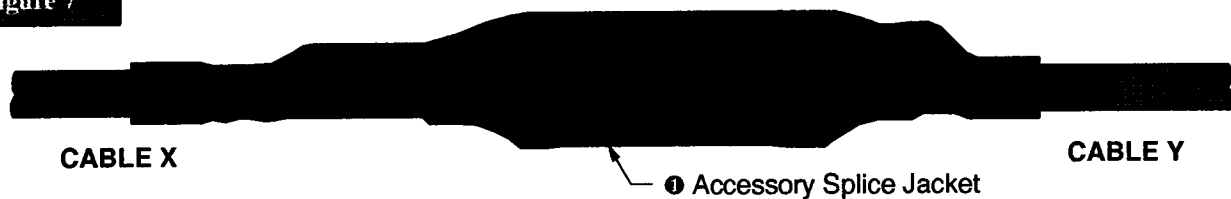
Figure 6



## D. Jacketed Concentric Neutral (JCN) Cable Only

1. Install Accessory Splice Jacket over splice and exposed neutral wires ① (Figure 7).
2. For 3M SJ Series or HSJ Series Splice Jacket, refer to instructions provided with kit.

Figure 7



CONNECTOR TABLE			
Conductor Size (AWG)		Connector Designation	
Stranded	Solid	A	840
2	1	CI-2A	CI-21-840
1	1/0	CI-1A	CI-21-840
1/0	—	CI-1/0A	CI-1/0-840
2/0	—	—	CI-2/0

CRIMPING TOOL TABLE							
MECHANICAL				HYDRAULIC			TECHNICAL DATA
MFG.	TOOL	DIE (Crimps Per End)		TOOL	DIE (Crimps Per End)		
		A	840		A	840	
BURNDY	MD6	W-BG (2) BG (3)	W-K840 (4) W-249 (3)	Y-35, Y-39, Y-45 *	U25 ART (1)	U28 ART (2)	VOLTAGE RATING 25/28 kV – 200 kV BIL FOR CABLES RATED 90°C CONDUCTOR TEMP. CONTINUOUS AL. OR CU. COND. PASSES TESTS REQUIRED IN IEEE STANDARD 404-1986 FOR POWER CABLE JOINTS
KEARNEY	0-52, 0-51	5/8 (3)	840 (4)** 845H (3)	WH-1, WH-2	5/8 (3)	840 (3)**	
T&B	TBM-8	Olive (2)**	Blue (4)	TBM-15	50 (1)**	76 (2)	
ANDERSON	—	—	—	VC6	UNIVERSAL (1)	UNIVERSAL (2)	

\* – Usable with – Die Adapter PT 651

\*\* – Excess flash must be filed off to round out connector

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