

Quick Splice II

Molded Rubber Cable Repair Splicing Kit

IEEE Std. No. 404-1986

25/28 kV Class

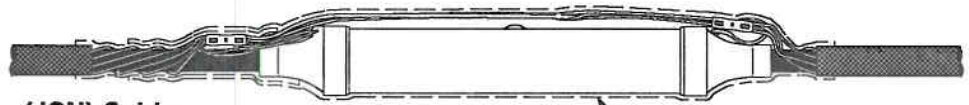
200 kV BIL

Kit Contents

- 1 Molded Rubber Splice Body
- 1 Connector
- 2 Packets of Silicone Grease
- 1 Instruction Sheet



(CN) Cable



(JCN) Cable

Accessory Splice Jacket

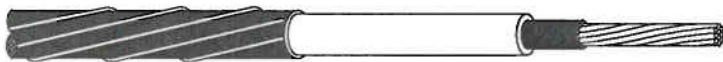
Selection Chart

NOTE: Final determining factor is cable insulation diameter.

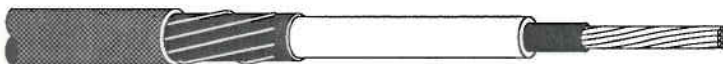
Kit Number (With Connector) *	Cable Insulation O. D. Range	Conductor Size	Cable Insulation Thickness
		AWG	mils
5451R-CIR-21A	0.870 – 1.055 in. (22,1 – 26,8 mm)	2 or 1 Stranded	260
		1 or 1/0 Solid	280
			295
5451R-CIR-21-840	0.870 – 1.055 in. (22,1 – 26,8 mm)	2 or 1 Stranded	260
		1 or 1/0 Solid	280
			295
5451R-CIR-1/0A	0.870 – 1.055 in. (22,1 – 26,8 mm)	1/0 Stranded	260
			280
			295
5451R-CIR-1/0-840	0.870 – 1.055 in. (22,1 – 26,8 mm)	1/0 Stranded	260
			280
			295

*NOTE: CIR-A Series Connectors are sized for 5/8 crimping die;
CIR-840 Series Connectors are sized for 840 crimping die.

Table 1



Concentric Neutral Cable



Jacketed Concentric Neutral Cable

3M Quick Splice II
Molded Rubber Cable Repair
Splicing Kit
 for use on Concentric Neutral (CN) Cable
 and
 Jacketed Concentric Neutral (JCN) Cable
 (With Accessory Splice Jacket)

5451R

2047T-72

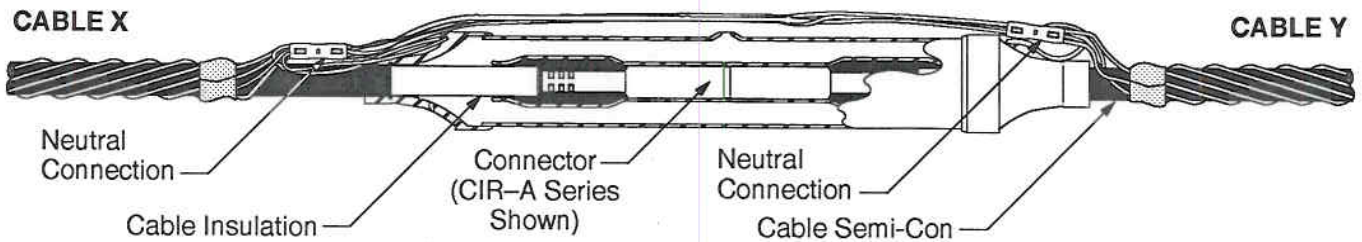
SCALE: Not to scale

ISSUE DATE: 12/12/91

ISSUE:

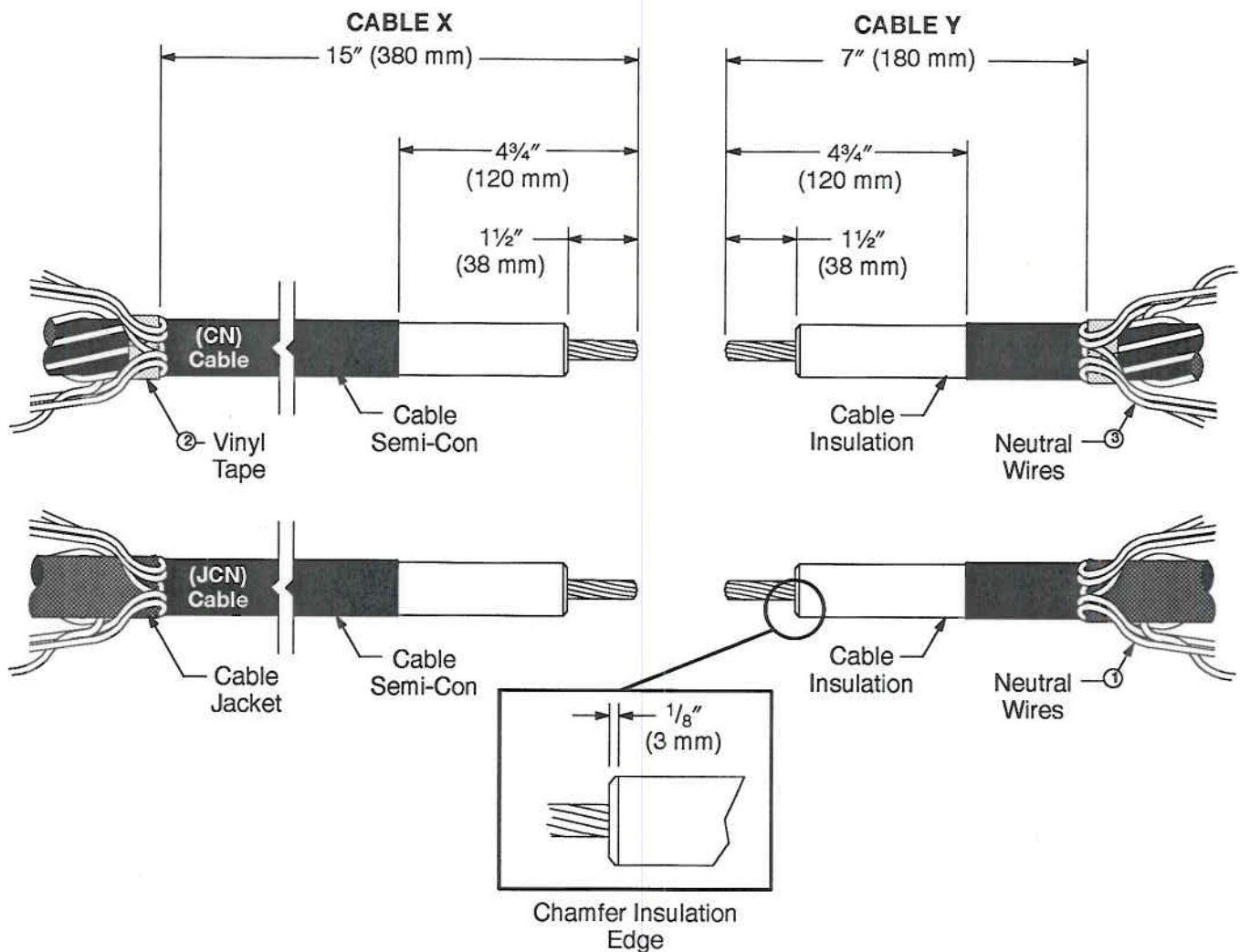
A. Prepare Cables Using Standard Procedures *(Shown on CN Cable)*

1. Cut out damaged section of cable, but do not exceed 6" (152 mm). Check to make certain that the cable insulation diameter is between 0.870" and 1.055" (22,1 to 26,8 mm).



2. Gently fold neutral wires back over cable, ① avoiding sharp bends. If cable does not have a jacket, bind neutral wires as shown with wire or vinyl tape ② and fold neutral wires back over binding. ③

3. Continue cable preparation according to figure below.
NOTE: Check dimensions using templates provided.

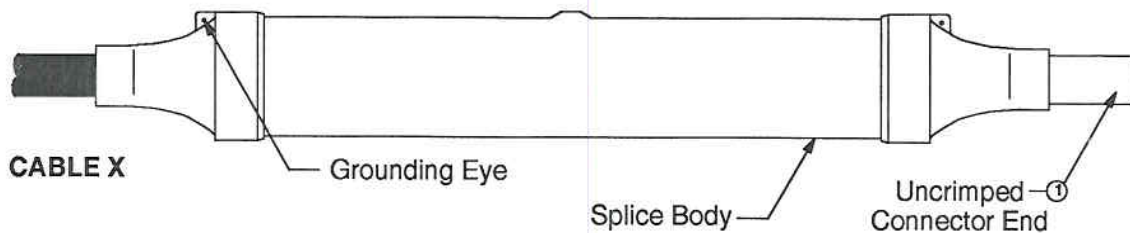


4. Clean cable using standard practice:

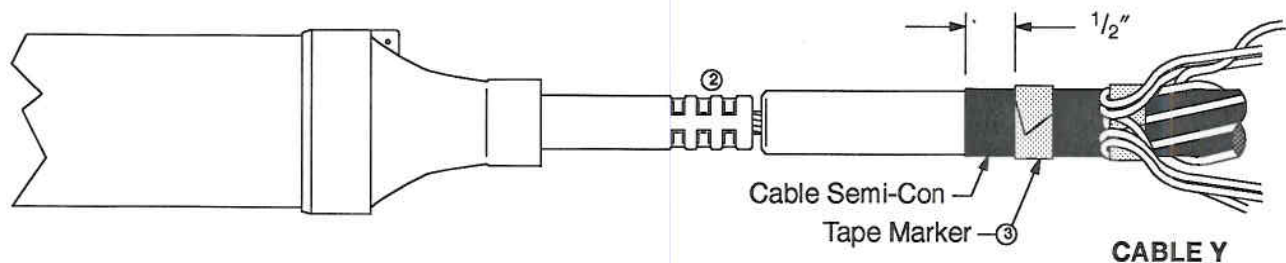
- a. Do not use solvent or abrasive on cable semi-conductive insulation shield.
- b. If abrasive must be used, do not reduce cable insulation diameter below the 0.870" (22,1 mm) specified for splice.

B. Installation *(Shown on CN Cable)*

1. Install CIR Connector provided onto Cable X only and crimp per the CRIMPING TOOL TABLE.
 2. Remove excess contact aid from connector end and file off any sharp crimp flashing.
 3. Lubricate the connector, Cable X insulation and both ends of splice bore with silicone grease provided.
 4. Slide the splice body onto connector and Cable X until uncrimped connector end is exposed, ① as shown. For easier installation, the splice body may be rotated while being installed.
- NOTE: For Jacketed Concentric Neutral (JCN) Cables, accessory splice jacketing components should also be slid onto cable at this time.**



5. Connect exposed connector end to Cable Y ② and crimp per CRIMPING TOOL TABLE.
6. Remove excess contact aid from connector end and file off any sharp crimp flashing.
7. Place a tape marker on Cable Y semi-conductive insulation shield, 1/2" (13 mm) from end of cable semi-con. ③

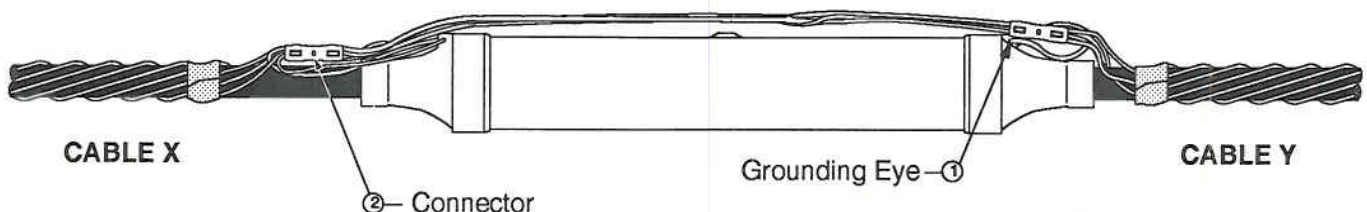


8. Lubricate exposed connector and Cable Y insulation with silicone grease.
9. Center splice body over connector, so leading edge aligns with tape marker. ④ Remove tape marker.



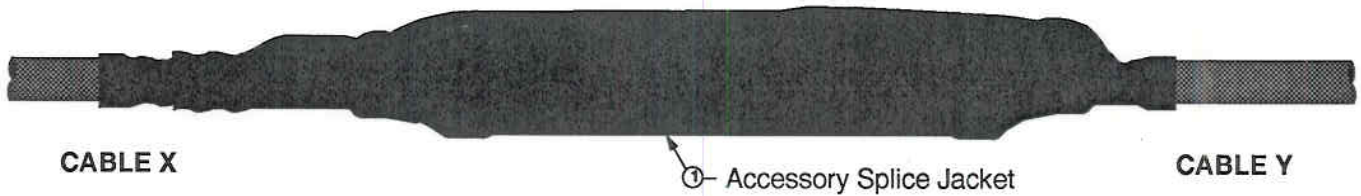
C. Grounding Splice *(Shown on CN Cable)*

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



D. Jacketed Concentric Neutral (JCN) Cable Only

1. Install Accessory Splice Jacket over splice and exposed neutral wires. ①
2. For 3M SJ Series or HSJ Series Splice Jacket, refer to instructions provided with kit. Note that an additional Cold Shrink Tube (8420-Series) or Heat Shrink Tube (ITCSN-Series) is also required to cover the longer length of the repair splice.



CRIMPING TOOL TABLE

MECHANICAL		DIE (Crimps Per End)		HYDRAULIC			TECHNICAL DATA
MFG.	TOOL	A	840	TOOL	DIE (Crimps Per End)		
					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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3M Electrical Products Division

6801 River Place Blvd.
Austin, Texas 78726 – 9000

