

**CAUTION:** CHECK THE INSULATION DIAMETER. THE DIAMETER MUST BE BETWEEN 1.060 & 1.210 INCHES.

**A. PREPARE CABLES ACCORDING TO STANDARD PROCEDURES (FIGURE 1)**

1. Allow sufficient concentric neutral wires for connection.
2. Gently fold neutral wires back over cable jackets. Avoid sharp bends.
3. Continue preparation of cables according to Figures 1 & 2.

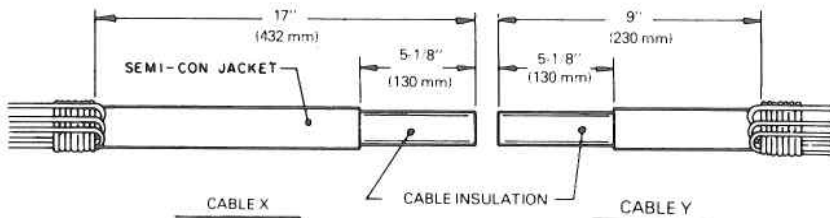


FIG. 1

4. Clean cables.
  - a. Do not use solvent on semi-conductive jacket.
  - b. Do not use abrasive cloth on insulation or semi-con jacket.

6. Install splice body onto cable X.

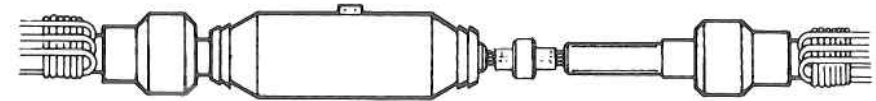


FIG. 3

7. Install connector. See connector and crimping tool table below.
8. Reclean and lubricate exposed insulation.
9. Center splice body over connector as in Figure 4.

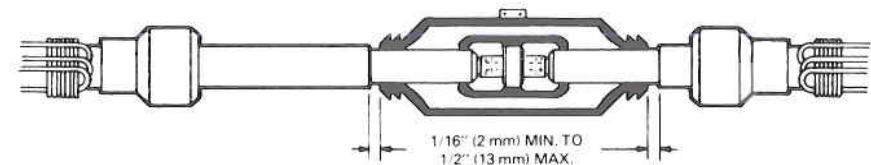


FIG. 4

10. Apply silicone grease over exposed insulation.
11. Firmly seat one end cap against splice body and *twist* onto splice body. Two locking grooves exist on the splice body. **THE WORKMAN SHOULD FEEL TWO SNAPS.**
12. Check for proper spacing between splice body and jacket of other cable.
13. Firmly seat remaining end cap against splice body.

**B. INSTALLATION PROCEDURES (FIGURES 2, 3 and 4)**

1. In order to facilitate splice installation wrap a small amount of vinyl tape around the edge of the jacket on cable X to form a ramp. This tape must be removed after step 8.
2. Examine edge of semi-con jacket on cable X. If the jacket appears to be flared outward, wrap a small amount of vinyl tape around the edge of the jacket to form a ramp. This tape must be removed prior to step 8.
3. Lubricate the insulation of both cables with silicone grease furnished in kit.
4. Slide end caps onto their respective cables.
5. Clean and generously relubricate insulation of cable X.

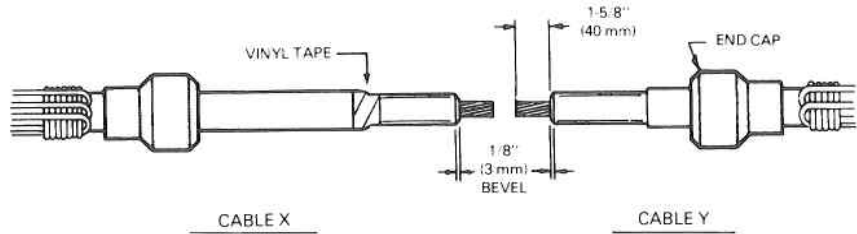


FIG. 2

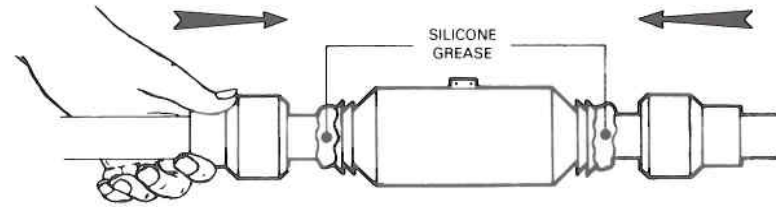


FIG. 5

**C. GROUNDING THE SPLICE**

1. Attach one wire from each cable to the grounding dye and remainder to an inline connector as shown.

# 3M Systems for Splicing and Terminating.

**CONNECTOR TABLE**

CONNECTOR	STRANDED	SOLID
CI-1A	# 1	1/0
CI-1/0A	1/0	—

**CRIMPING TOOL TABLE**

CABLE SIZE	MFG	MECHANICAL		HYDRAULIC	
		TOOL	DIE (Crimps per End)	TOOL	DIE (Crimps per End)
# 1 & 1/0	BURNDY	MD6	BG(2)***	Y-35, Y-39, Y-45*	U26ART(2)
	KEARNEY	0-52, 0-51	5/8-1(2)***	WH-1, WH-2	5/8-1(2)***
	T & B	TBM-8	Olive(2)	TBM-15	50(1)**
	ANDERSON	—	—	V C 6	UNIVERSAL

**TECHNICAL DATA**

VOLTAGE RATING  
35 KV  
FOR CABLES RATED  
90° C COND. TEMP.  
AL. OR CU. COND.  
PASSES TESTS  
REQUIRED IN  
IEEE PROPOSED  
STANDARD FOR  
POWER CABLE  
JOINTS

\*Usable with U-Die Adapter PT651  
\*\*Excess flash must be filed off to round out connector  
\*\*\*Second crimp can overlap first (i.e., three indentations)

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Electro-Products Division <b>3M</b> COMPANY 3M CENTER · SAINT PAUL, MINNESOTA 55101			

## 3M BRAND QUICK-SPLICE

INLINE SPLICING KIT

# 5432

FOR USE ON CONCENTRIC NEUTRAL (URD) CABLE

CONDUCTOR SIZE # 1 & 1/0

INSULATION O.D. 1.060" (26.92 mm)  
TO 1.210" (30.73 mm)