

Instructions

3M

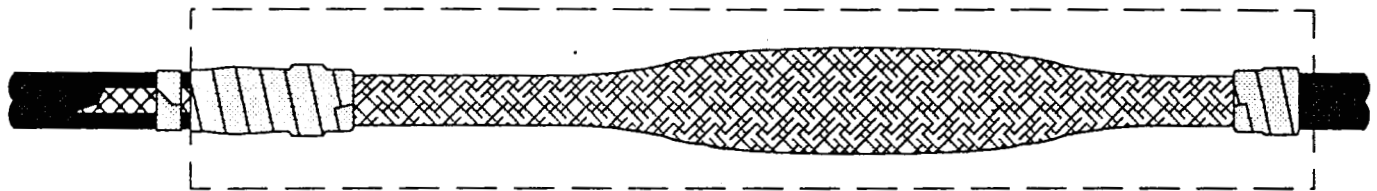
SG-2 Hi-Amp

Splice Grounding Accessory Kit

For L.C. Shielded and Tape Shielded Cable

Kit Contents

- 1 Copper Screen Sleeve
- 3 Mastic Seal Strips
- 2 Constant-Force Springs
- 1 Preformed Ground Braid
- 1 Instruction Sheet



Cable Accommodation Chart

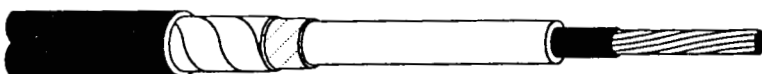
(Final determining factor is cable shield diameter)

Product	Insulation Class	Conductor Range (kcm)
SG-2	15 kV (.175)	350 – 1000
	15 kV (.220)	
	25 kV (.260)	
	25 kV (.280)	
	35 kV (.345)	
Shield Diameter Accommodation Range: 1.25" (32 mm) min. to 2.25" (570 mm) max.		

Table 1



LC Shielded Power Cable



Tape Shield

SG-2 Hi-Amp

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Primary Short Circuit Capacity
Rated 15 kA – 15~

2047U-68

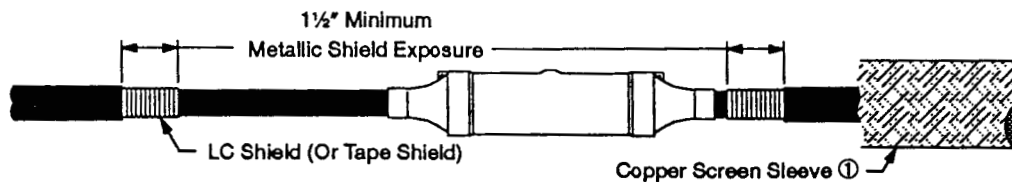
ISSUE DATE: 8/11/92

SCALE: Not to scale
ISSUE: A

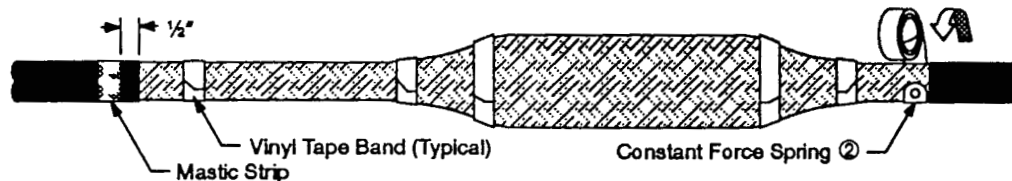
Splice Shield and Grounding Kit Installation

1. Position copper screen sleeve ① over cable jacket prior to connecting cable ends.

NOTE: When re-jacketing with cold shrink PST or heat shrink sleeve, position the unit over the cable jacket (opposite side) prior to connecting cable ends.



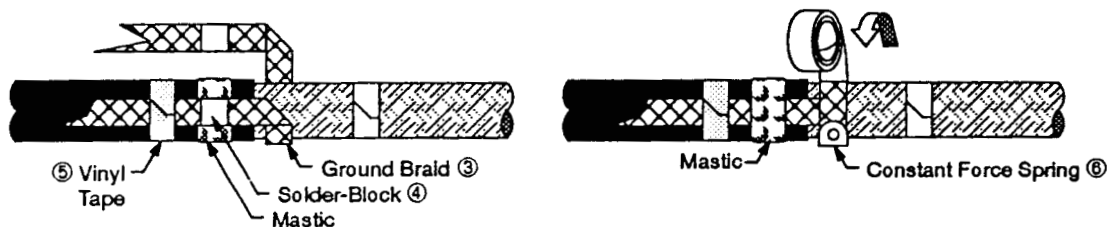
2. Install splice according to supplier recommendations. Maintain a minimum 1 1/2" (38 mm) metallic shield exposure on each side.



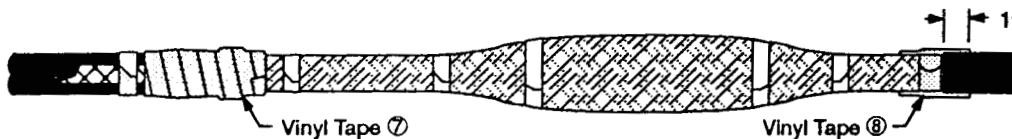
3. Position copper screen sleeve over center of splice opening and, starting on the splice body, form the sleeve to the shapes covered. Vinyl tape bands will aid in this forming.

NOTE: Tape bands should not extend beyond metallic shield edge on each side.

4. Wrap one of two constant force springs (supplied) over screen sleeve and metallic shield 1/2" (13 mm) from jacket cut edge ② (side opposite to ground strap attachment; determined by user).
5. Trim ends of screen sleeve to align with jacket cut edge using scissors or diagonal cutters. Screen sleeve should not extend onto cable jacket.
6. Select one of three mastic strips from kit. Remove liners and wrap mastic around cable jacket 1/2" (13 mm) from cut edge (see STEP 2 sketch). Discard any excess from this piece.



7. Position twin pre-formed ground braid ③ with one tail along jacket and solder-block ④ centered on mastic strip. A temporary binder of vinyl tape ⑤ will ease strap installation.
8. Wrap braid around copper screen sleeve and secure in place with constant force spring ⑥ (supplied). Cinch (tighten) last lap of spring.
9. Repeat (STEP 7.) to position second ground braid tail (not shown in sketch) and apply second mastic strip layer over solder-block position.
10. Starting on the cable metallic shield (ahead of constant force spring) wrap two half-lapped layers vinyl tape ⑦ (not supplied) extending 1/4" (6 mm) beyond mastic onto cable jacket. Return to starting point to complete second layer. Overwrap constant force spring on opposite end with two half-lapped layers vinyl tape ⑧ extending 1" (25 mm) onto cable jacket.



11. Re-jacket splice according to supplier recommendations and connect braid tails to ground according to current practice.

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34-7032-6810-1

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