3M

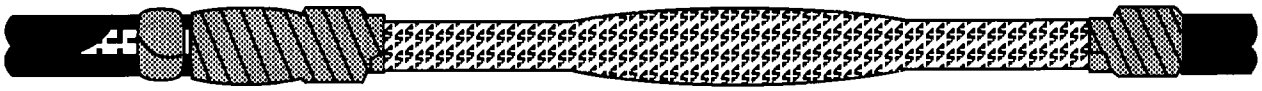
SG-3

Splice Grounding Accessory Kit for LC Shielded and Tape Shielded Cable

Instruction Sheet

Kit Contents

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



Cable Accomodation Chart

(Final determining factor is cable shield diameter)

Product	Insulation Class	Conductor Range (kcm)
SG-3	15 kV (.175)	350 - 1000
	15 kV (.220)	
	25 kV (.260)	
	25 kV (.280)	
	35 kV (.345)	
Shield Diameter Accommodation Range: 1.25" (32mm) min. to 2.25" (57mm) max.		

Table 1

LC Shielded Power Cable

Tape Shield

NUMBER OF PAGES: 3	SCALE: Not to scale
ISSUE DATE: 6/17/95	ISSUE: A

SG-3

Hi-Amp

Splice Grounding Accessory Kit

Primary Short Circuit Capacity
Rated 15 kA - 15 ~

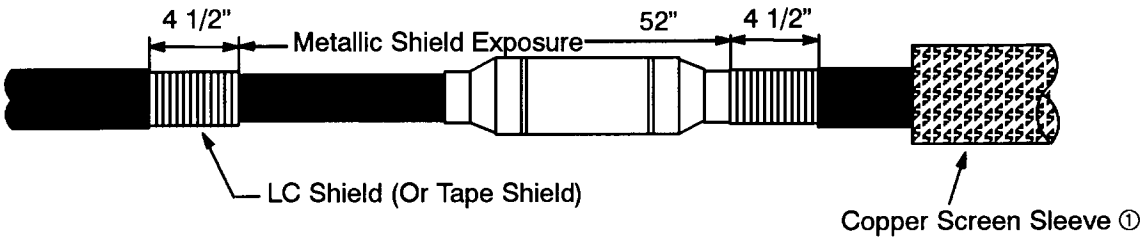
78-8096-4992-0

A. Splice Shield and Grounding Kit Installation

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

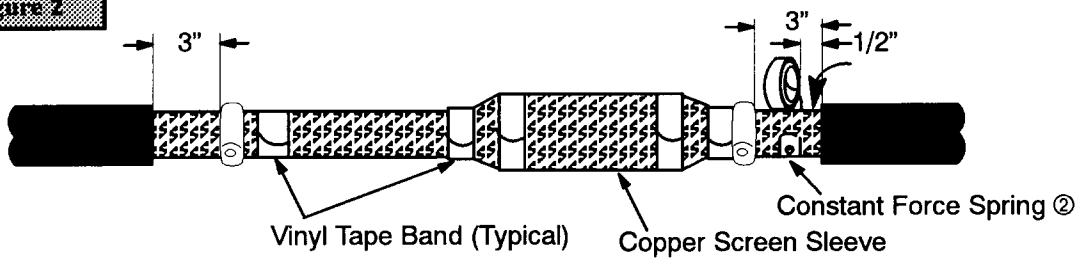
   NOTE: When rejacketing with cold shrink rubber tubing or heat shrink sleeve, position the unit over the cable jacket (opposite side) prior to connecting cable ends.

Figure 1



2. Install splice according to supplier recommendations. Maintain a minimum 4 1/2" metallic shield exposure on each side.

Figure 2

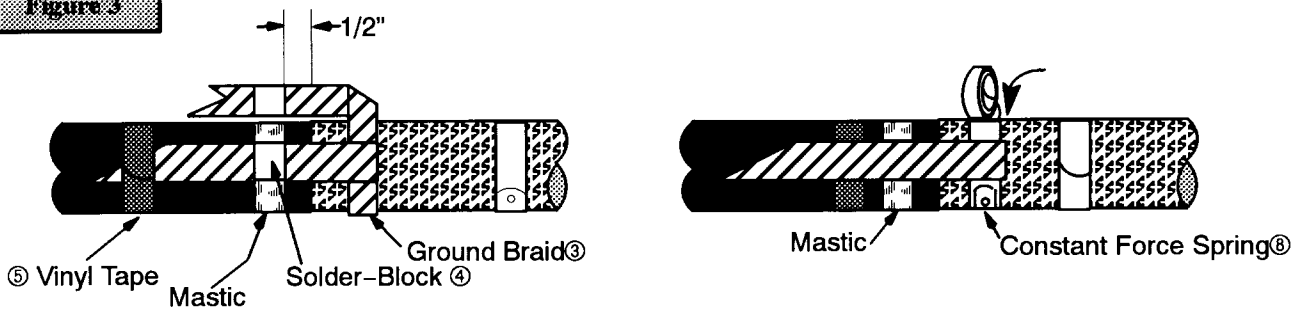


3. Position copper screen sleeve over center of splice opening and, starting on the splice body, form the sleeve to the shapes covered. Vinyl tape bands will aid in this forming.

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

4. Wrap two of four constant force springs (supplied) over screen sleeve and metallic shield first at 1/2" (13mm) from jacket cut edge, second at 3" from jacket cut edge ② (side opposite to ground strap attachment; determined by user). At the end of ground strap attachment, install third constant force spring 3" from jacket end on copper screen sleeve over metalic shield.
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" (13mm) from cut edge (see Figure 3). Discard any excess from this piece.

Figure 3

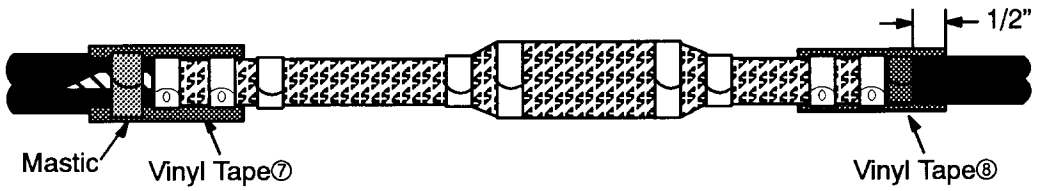


7. Position twin pre-formed ground braid ③ with one tail along jacket and solder-block ④ centered on mastic strip. A temporary binder of vinyl tape ⑤ will ease strap installation. Wrap second mastic strip layer over single solder-block area of ground braid (middle layer between solder-block area).
8. Wrap braid around copper screen sleeve and secure in place with fourth 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 third mastic strip layer over solder-block position.

10. Starting on the cable metallic shield (ahead of constant force spring) wrap two half-lapped layers of vinyl tape ⑦ (not supplied) extending 1/2" (6mm) beyond mastic onto cable jacket. Return to starting point to complete second layer. Overwrap constant force springs on opposite end with two half-lapped layers of vinyl tape ⑧ extending 1" (25mm) onto cable jacket.

Figure 4



11. Rejacket splice according to supplier recommendations and connect braid tails to ground according to current practice.

3M

Electrical Products Division

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78-8096-4992-0

STRUCTURAL SPECIFICATION FOR PRINTED INSTRUCTION SHEETS FOR ELPD

78 #: 78-8096-4992-0
Issue #: New
Date: 6/17/95

SCOPE: THIS SPECIFICATION ADDRESSES THE STRUCTURAL OPTIONS FOR THE PRINTING OF INSTRUCTION SHEETS. GRAPHIC ART, WITH A CONTROL NUMBER (78-XXXX-XXXX-X), MUST BE ATTACHED TO THIS STRUCTURAL SPECIFICATION IN-ORDER TO CREATE A MATERIAL PURCHASE SPECIFICATION.

MATERIAL: 60# OFFSET

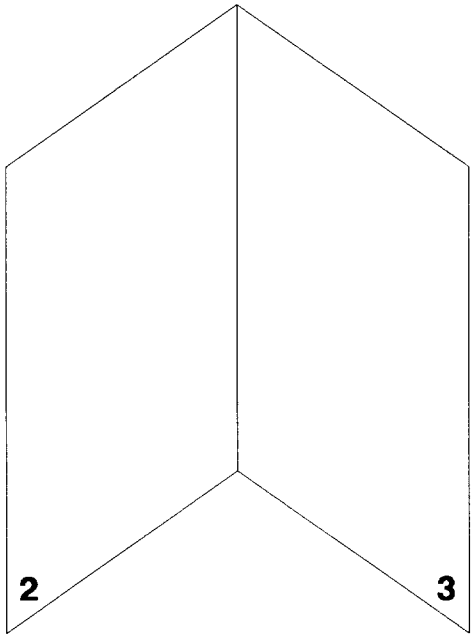
COLOR: WHITE

INK COLOR: BLACK

ADDITIONAL INFORMATION:

1. VENDOR TO MAKE PART NO. 78-_8096-4992-0_____ PER STYLE BELOW.
2. VENDOR MAY SUBSTITUTE GLUE WHERE STITCHING IS CALLED OUT IF IT REDUCES THE COST TO 3M.

(3 or 4 page, center folded)



17″ X 11″ SHEET, PRINTED BOTH SIDES. FOLD TO 8-1/2″ X 11″ AND THEN TO 4-1/4″ X 11″ WITH TITLE BLOCK FACING OUT.