



82-A Series Power Cable Splice Kit

Instructions



LISTED 98U1

Wire connector system for use with underground conductors.

1.0 Applications:

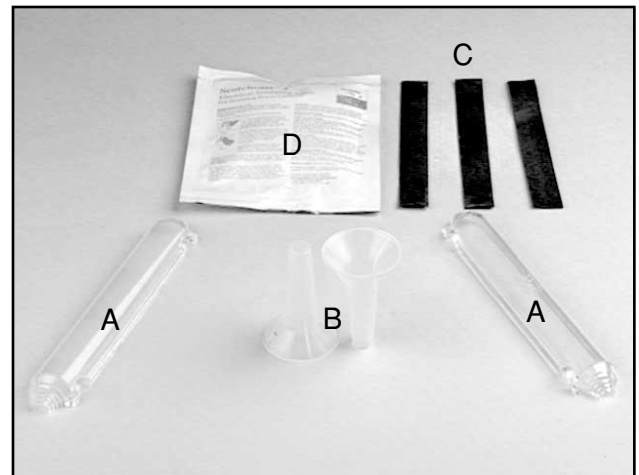
Designed for use in weather-exposed or direct-burial locations. For making inline (straight) splices on unshielded, synthetic insulated cables rated up to a maximum of 5kV and for multiple conductor cables rated up to a maximum of 1kV. UL Listed for direct burial and submerged applications up to 600 volts and 90°C. For use with UL Listed connectors only. These kits will accommodate the following connectors and conductor sizes:

Table A

Kit No.	Conductor Size	Connector O.D.	Cable O.D.	Sheath Opening (L)	(A)	(B)
82-A1	#2 AWG (max.)	1 3/32" (maximum)	5/8" (maximum)	4 1/2" (maximum)	1/2	1/4"
					connector length	
82-A2	#2 AWG (min.) #3/0 (max.)	5/8" (maximum)	1" (maximum)	6" (maximum)	1/2	1/2"
					connector length	
82-A3	#3/0 (min.) 400 kcmil (max.)	1" (maximum)	1 9/16" (maximum)	9" (maximum)	1/2	1/2"
					connector length	

2.0 Kit Contents:

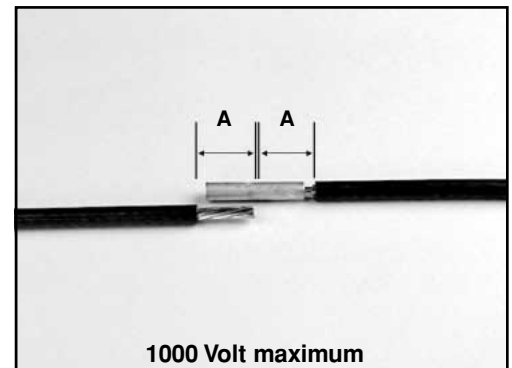
- Mold BodyA
- Pouring Spouts.....B
- Scotch™ 23 Electrical TapeC
- 3M™ Scotchcast™ No. 4 Resin.....D



3.0 Prepare Cable:

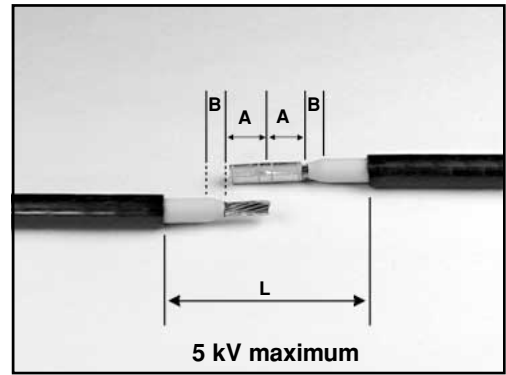
3.1 **For 1000 volt:** Thoroughly scrape all wax and dirt 5" back from each cable end. Prepare cable ends exactly as shown. See Table A for proper sizing and dimensions.

Sheath CutbackA



3.2 **For 5 kV maximum:** Thoroughly scrape all wax and dirt 5" back from each cable end. Prepare cable ends exactly as shown. Do not cut insulation while removing outer sheath. See Table A for proper sizing and dimensions.

- Bare ConductorA
- Insulation PencilB
- Maximum Sheath OpeningL

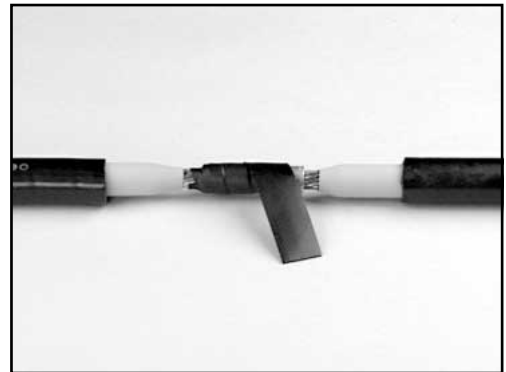


4.0 Connection

- 4.1 Make connections according to instructions for connector being used. The mold will accept:
 - a) Crimped type connectors and b) Split solder sleeve connectors.
- 4.2 **Multi-conductor Cables.** Stagger individual connectors (provide lateral spacing of 1/2" between ends of connectors) and insulate connector with Scotch™ 23 Electrical Tape. Sheath opening should not exceed dimension “L” in Table A.

Note: Connectors not provided with kit.

- 4.3 **Tape Over Connector Area.** Apply one layer, half-lapped, Scotch 23 Electrical Tape over connector area only. Do not wrap tape onto the pencilled area.



5.0 Install Mold Body

- 5.1 Trim mold ends with knife to fit cable slightly loose. Hold mold halves in place, centered over splice. Snap mold halves together firmly. Check to see that both seams are carefully snapped together. Tape ends of mold body around cable to seal. Use supplied Scotch 23 Electrical Tape.

IMPORTANT: *Stretch tape to 3/4 original width.*



6.0 Pour Splice

- 6.1 Put pouring spouts in holes.
- 6.2 Position splice level. Mix resin thoroughly per instructions on resin package. Pour resin immediately after mixing. Fill only through one spout until both spouts are completely filled. When resin has solidified and cooled, splice may be put into service. Clip off spouts, if desired.



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Electrical Products Division

6801 River Place Blvd.
Austin, TX 78726-9000
800/245-3573
<http://www.3M.com/elpd>



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