

Installation Instructions

K151SP

Straight Plug

CONTENTS: *Straight Plug, Conductor Contact (female), Nylon Venting Rod, Pin Installation, Lubricant, Crimp Chart, Installation Instructions.*

The K151SP is designed to connect lengths of solid dielectric type cable to one another or to electrical apparatus by mating with other ELASTIMOLD products that are also designed for these functions. The K151SP mates with the following ELASTIMOLD products: K151SR, K150T, K150DR, and 156LR.

The K151SP is for use on 15kV and 25kV class systems (8.3kV phase-to-ground and 15.2kV phase-to-ground).

CAUTION: A bailing arrangement is required when this product is used with any mating Elastimold deadbreak product.

DANGER

All apparatus must be de-energized during installation or removal of part(s).

All apparatus must be installed and operated in accordance with individual user, local, and national work rules. These instructions do not attempt to provide for every possible contingency.

Do not touch or move energized products.

Excess distortion of the assembled product may result in its failure.

Inspect parts for damage, rating and compatibility with mating parts.

This product should be installed only by competent personnel trained in good safety practices involving high voltage electrical equipment. These instructions are not intended as a substitute for adequate training or experience in such safety practices.

Failure to follow these instructions will result in damage to the product and serious or fatal injury.

If this product is supplied with a protective shipping cover(s), remove this shipping cover(s) and replace with the appropriate HV insulated cap(s) or connector(s) before submerging or energizing the circuit.

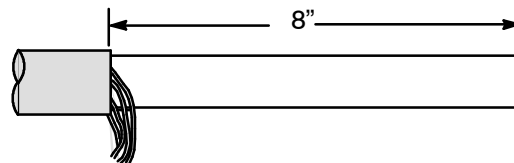
FOR MORE INFORMATION ON PARTS, INSTALLATION RATINGS AND COMPATIBILITY, CALL THE NEAREST ELASTIMOLD OFFICE.

IMPORTANT

1. Check contents of package to ensure they are complete and undamaged.
2. Check all components to ensure proper fit with cable and/or mating products.
3. Read entire installation instructions before starting.
4. Have all required tools at hand and maintain cleanliness throughout the procedure.

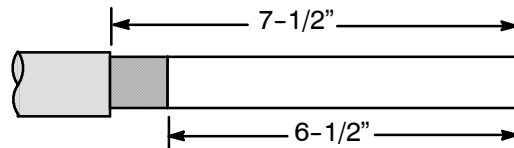
STEP 1A Jacketed Concentric Neutral

Cut Cable. Cut and remove cable jacket a distance of 8" from cable end. When cutting cable, allow sufficient concentric neutral wires for connecting to ground point as required by the installation.



STEP 1B Copper Tape Shield

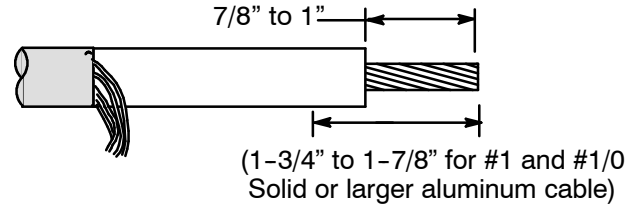
Cut cable. *Cut and remove cable jacket a distance of 7-1/2" from cable end. Remove copper tape shield a distance of 6-1/2" from end of cable.



*When using an ECS or MA grounding device, follow the appropriate installation instructions regarding outer jacket cut back.

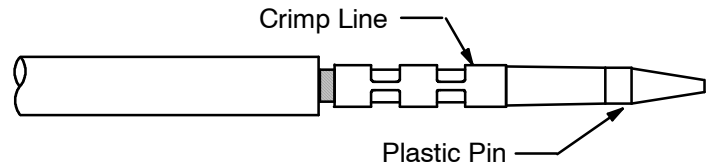
STEP 2

Remove 7/8" to 1" (1-3/4" to 1-7/8" for #1 stranded/compr. and #1/0 compt./solid aluminum cable) of cable insulation and conductive shield. Cut squarely, DO NOT PENCIL. Wire brush bare aluminum conductors and immediately insert into crimp barrel which contains inhibitor.



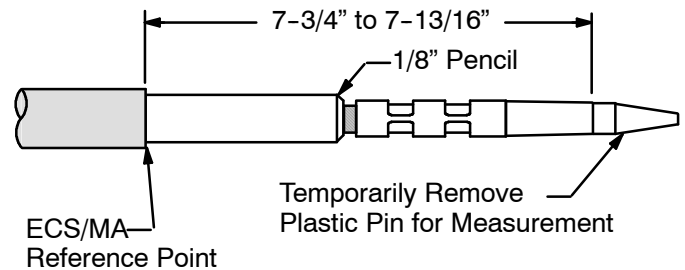
STEP 3

Crimp socket terminal on the bared conductor holding crimp barrel against the cable insulation. (See crimp chart packed with contact). Start the crimps at crimp line imprinted on crimp barrel and rotate each successive crimp or indent 90°. Carefully wipe excess inhibitor from the contact and cable insulation.



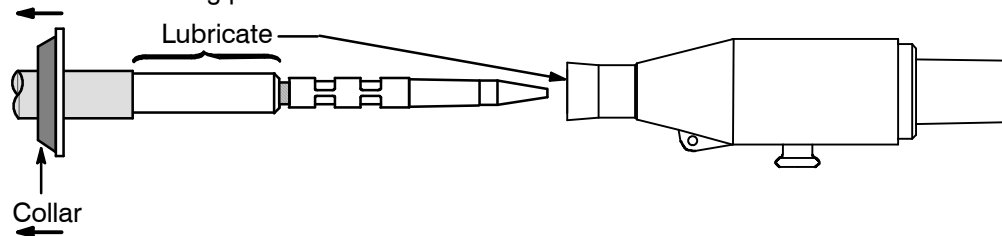
STEP 4

- Temporarily remove plastic pin.
- Remove the semi-conductive shield to a point 7-3/4" to 7-13/16" back from the end of the socket with straight, smooth, "squared" cut. DO NOT CUT OR NICK THE INSULATION.
- Replace the plastic pin.
- Pencil insulation 1/8".
- Clean the outer jacket, and thoroughly clean the insulation to remove all traces of semi-conducting residue. This may be done by wiping with a rag, wet with an approved solvent. Always wipe from the end of the cable toward the outer jacket.
- If using an ECS or MA grounding device, install the device following the appropriate installation instructions.



STEP 5

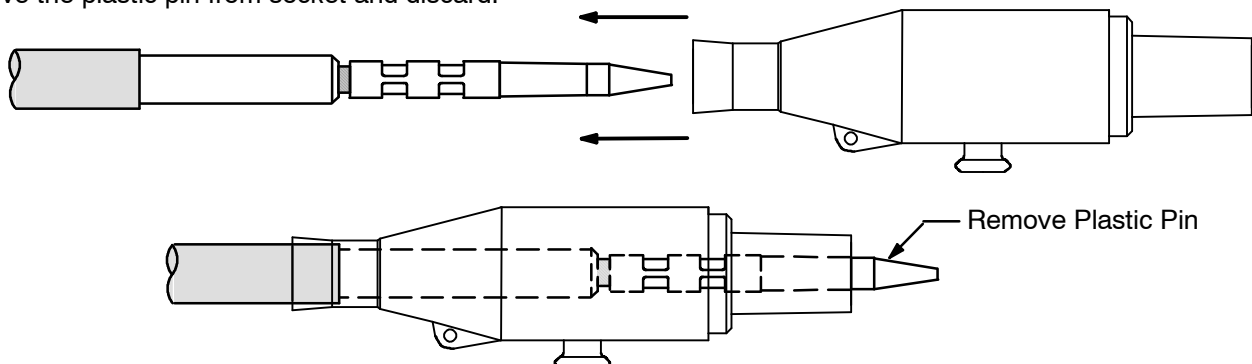
Slide the collar, smaller end first, onto each cable. Reference bailing instruction sheet. Keep cable insulation and plug clean. Apply supplied lubricant sparingly to the cable as shown and to the inside of the housing. DO NOT SUBSTITUTE. Other lubricants may be harmful to this product or its mating product.



STEP 6

To install on cable:

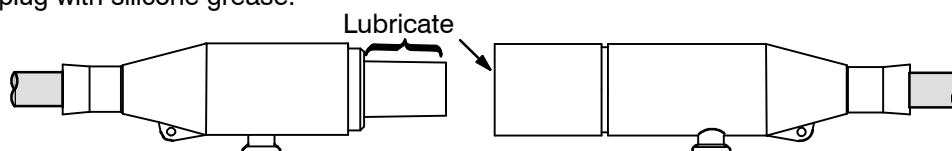
- Push cable into housing. The leading edge of the socket contact should be flush with the front edge of the plug.
- Remove the plastic pin from socket and discard.



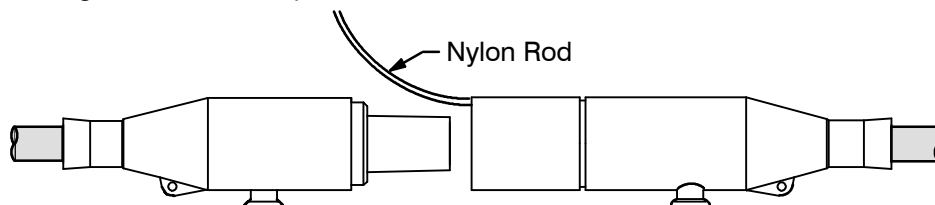
STEP 7

To connect to a mating receptacle:

A. Lubricate nose of plug with silicone grease.

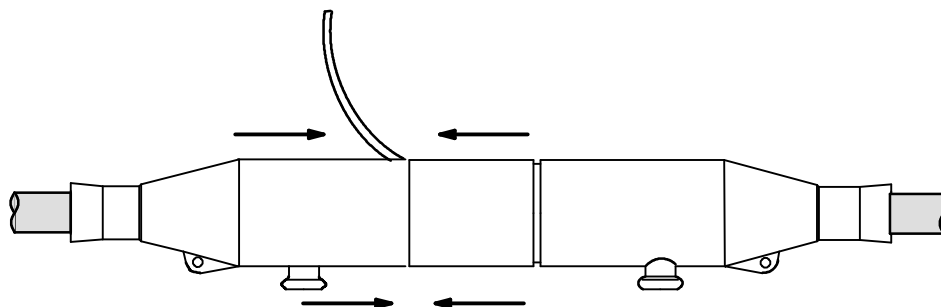


B. Place nylon rod into receptacle face until it bottoms (approximately 1-3/4"). Care should be used to ensure the nylon rod is not cut while mating parts, leaving material inside upon the interface.

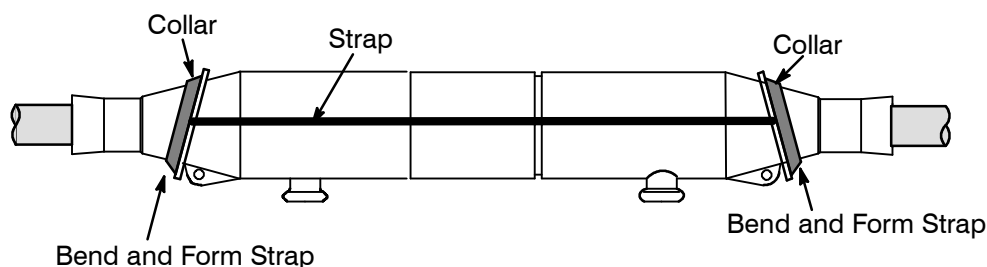


C. Insert plug assembly into receptacle as far as possible.

D. Pull out nylon rod.

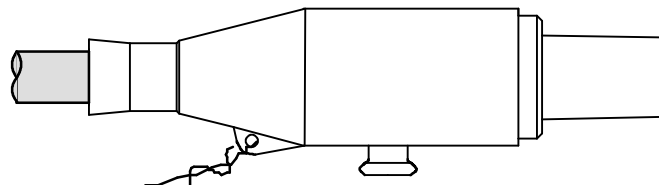


E. Secure the electrical connection with the aid of an ELASTIMOLD bail. Reference Bailing Instruction Sheet (150TB-4).



STEP 8

If an ELASTIMOLD grounding device is not being used, connect a length of (#14 AWG or equivalent) copper wire (customer supplied) thru the grounding tab and twist tightly as shown. Then connect the grounding assembly of the connector to the system ground by merging with the cable shield of each cable. Seal the grounding wires and connections to prevent corrosion.



Thomas & Betts

8155 T&B Boulevard, Memphis, Tennessee 38125
(800) 888-0211 Fax: (800) 888-0690