

Installation Instructions

K151LSP

Non-Separable Straight Plug

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

The K151LSP is designed to permanently connect lengths of solid dielectric type cable by mating with ELASTIMOLD'S K151LSR.

CAUTION: This product is designed to lock together and is intended for use with the K151LSR ONLY.

The K151LSP is for use on 15kV class systems (8.3kV phase-to-ground) or 25kV class systems (15.2kV phase-to-ground).

DANGER

All apparatus must be de-energized during installation or removal of part(s). For loadbreak products follow operating instructions. All deadbreak connectors must be de-energized before operating. All 200A deadbreak connectors must be mechanically secured with bails when connected.

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.

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

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.

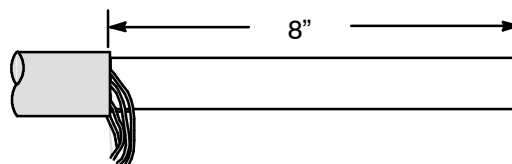
If this product is supplied with a protective shipping cover(s), remove this shipping cover(s) and replace with the appropriate HV insulated cap(s) or connector(s) before submerging or energizing the circuit.

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.
5. When connecting to a mating straight receptacle, K151LSR/K151LS the cable ends will be 3-1/8" apart after cutting.

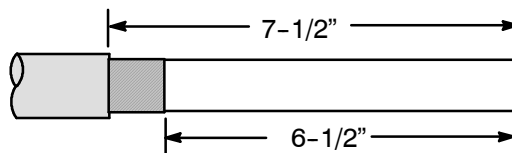
STEP 1A Jacketed Concentric Neutral

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

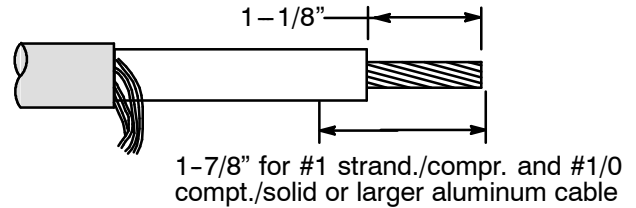
Cut cable. *Cut and remove cable jacket a distance of 7-1/2" from cable end. Remove copper tape shield a distance of 6-1/2" from end of cable.



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

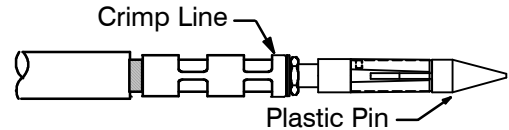
STEP 2

Remove 1-1/8" or (1-7/8" for #1 strand./compr. and #1/0 compt./solid or larger aluminum cable) of cable insulation and conductive shield. Cut squarely, DO NOT PENCIL. Wire brush bare aluminum conductors and immediately insert into crimp barrel.



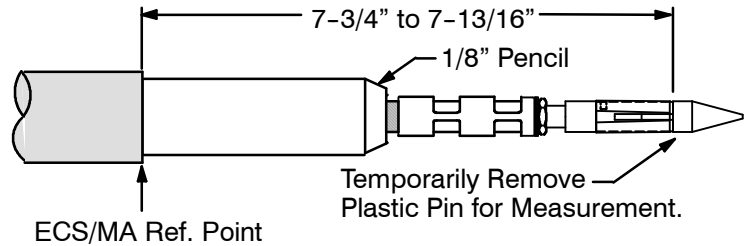
STEP 3

Crimp socket terminal on the bared conductor while ensuring conductor remains fully seated in connector. (See crimp chart packed with contact). Start the crimps at crimp line imprinted on crimp barrel and rotate each successive crimp or indent at least 90°. When using aluminum cable, carefully wipe excess inhibitor from the contact and cable insulation.



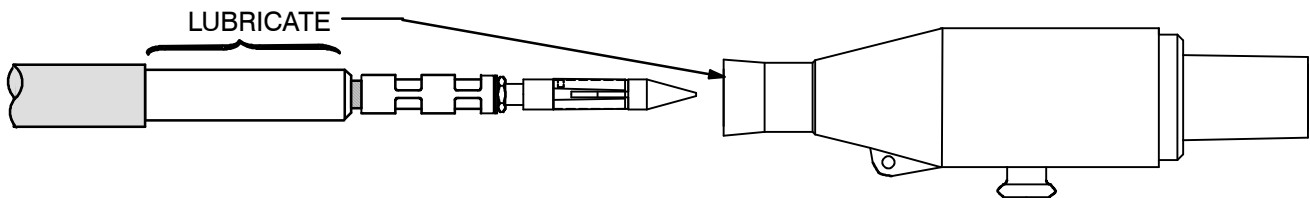
STEP 4

- 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.
- Pencil insulation 1/8".
- Replace plastic pin.
- 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

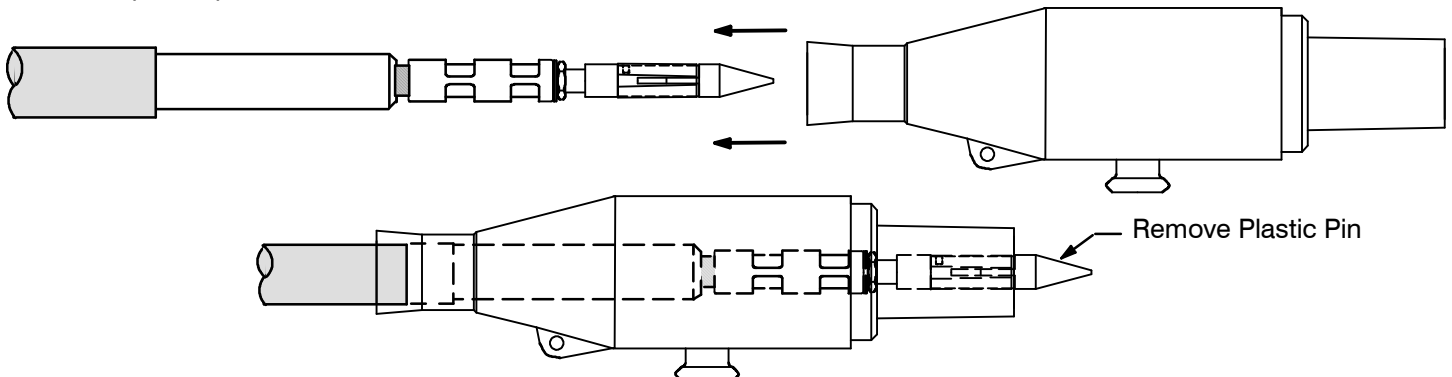
Keep cable insulation and plug clean. Apply supplied lubricant sparingly to the cable as shown and to the inside of the housing. DO NOT SUBSTITUTE. Other lubricants may be harmful to this product or its mating product.



STEP 6

To install on cable:

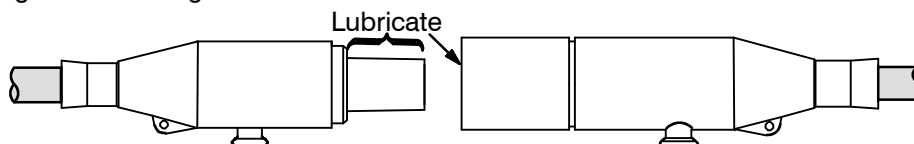
- Push cable into housing the leading edge of the socket contact should be flush with the front edge of the plug.
- Remove plastic pin from socket and discard.



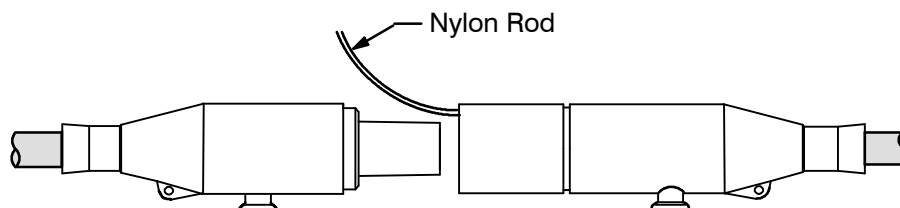
STEP 7

To connect to a mating receptacle:

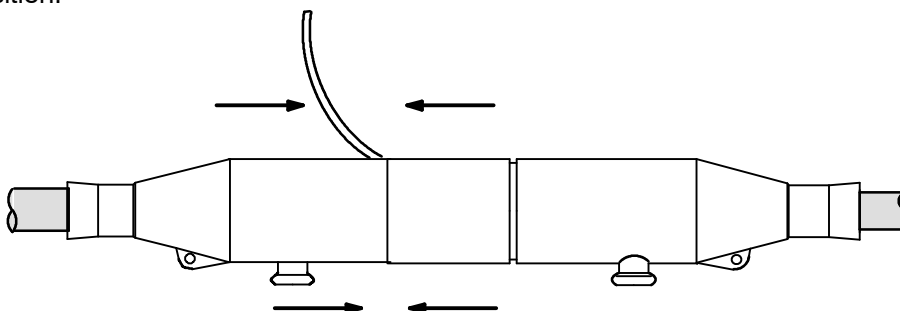
- A. Lubricate nose of plug with silicone grease.



- 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.



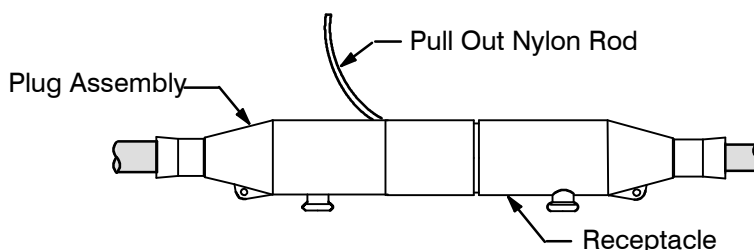
- C. Insert plug assembly into receptacle as far as possible. When mating, the assembler will feel the contact assembly "CLICK", lock into its final position.



STEP 8

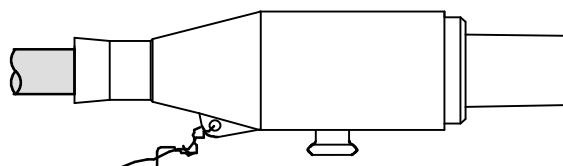
- A. Verify the locking contact by pulling on the cables; **DO NOT PULL THE HOUSING**. If the parts separate, repeat steps 7B and 7C.

- B. Pull out nylon rod.



STEP 9

If an ELASTIMOLD grounding device is not being used, connect a length of #14AWG 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.



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