

Installation Instructions

16THG

Single-Piece Outdoor Terminators

CONTENTS: Rubber Housing, Conductor Contact, Cap, Ground Strap, Washer, Lubricant, Wiping Cloth, Installation Instructions, Crimp chart.

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.

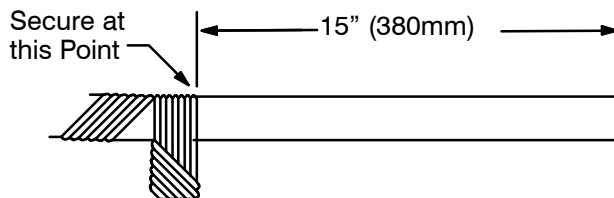
FOR MORE INFORMATION ON PARTS, INSTALLATION RATINGS AND COMPATIBILITY, CALL THE NEAREST ELASTIMOLD OFFICE.

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 1

Train cable into position. Unwrap and fold back concentric wires 15" (380mm) from the end of the cable. Secure concentric wires at this point by wrapping with plastic electrical tape or a strand of wire (do not use one of the concentric neutral wires). Twist the loose concentric wires together to form a ground lead.



STEP 2

Carefully cut (avoid nicking or damaging the conductor strands) and remove the insulation from the end of the cable the distance specified in Table 1. If conductor is damaged, cut the end off and start over.

DO NOT INSTALL CONNECTOR OR CAP

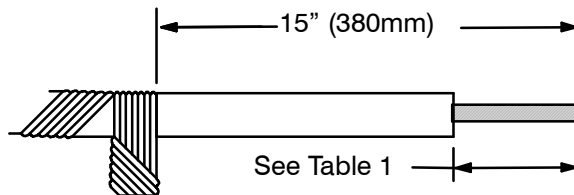
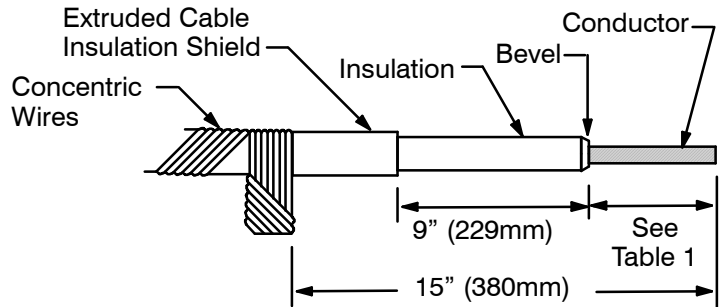


TABLE 1

Conductor Contact Style	Conductor Size	"Remove Insulation"
 -4 (Universal Rod)	No. 6 thru 1/0 Str. Contact 00500180 to 00500220, 00501230, 00501240	1 7/8" (47,6mm)
	No. 1 thru 4/0 Str. Contact 00500230 to 00500270	3 3/4" (95,9mm)

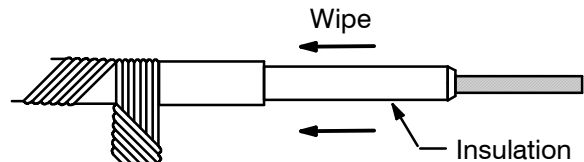
STEP 3

Carefully cut and remove the exposed extruded cable insulation shield a distance of 9" (229mm) from the end of the insulation. Cut extruded cable insulation shield squarely, being careful not to nick or cut the cable insulation. If the insulation is damaged, cut off and start over. Bevel the edge of the cable insulation not more than $\frac{1}{4}$ " (6,4mm).



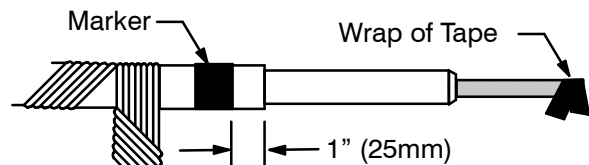
STEP 4

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 soaked with an approved safety solvent. Always wipe from the end of the cable toward the outer jacket. Failure to remove all conductive residue from cable insulation will be cause for failure.



STEP 5

Mark the extruded cable insulation shield by wrapping a piece of tape exactly 1" (25,4mm) from the end of the extruded cable insulation shield. To prevent the cable conductor from damaging the inside of the terminator, wrap a piece of tape around the leading edge of the conductor. Damage to the inner surfaces of the terminator could result in unsatisfactory performance.

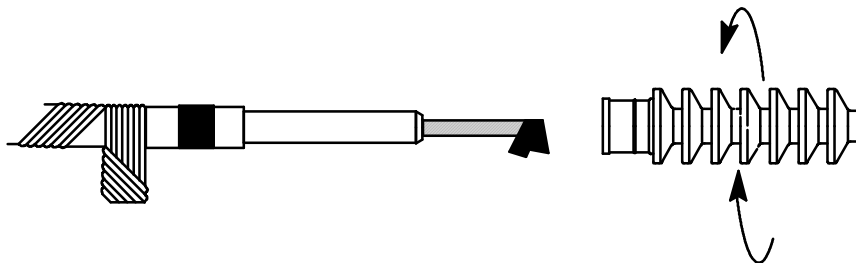


STEP 6

1. Before proceeding to Step 7, check Steps 3 and 5 to insure that correct cutback and taping have been accomplished.
2. Apply supplied lubricant or ELASTIMOLD approved lubricant sparingly to the cable insulation and to the inside base surface of the terminator. **DO NOT SUBSTITUTE.** Other lubricants may be harmful to this product or its mating product.

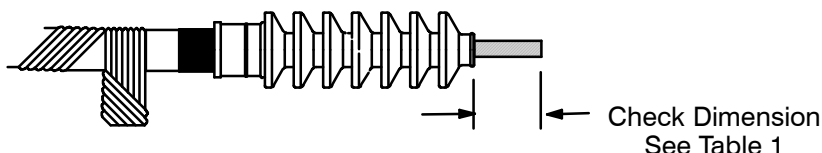
STEP 7

Slide the terminator housing down on the cable using a spiral motion. The base of the terminator housing must align with the wrap of tape on the extruded cable insulation shield. The top of the terminator housing should be flush with the end of the cable insulation. Improper positioning of the terminator on the cable could result in unsatisfactory performance.



STEP 8

Check the dimension from the top of the terminator housing to the end of the cable conductor. See Table 1 for correct dimension for the contact being used. If the terminator housing does not align with the tape, if it is not flush with the cable insulation, or if the check dimension is not correct, remove the terminator housing and check Steps 3 and 5 again before proceeding to Step 8.

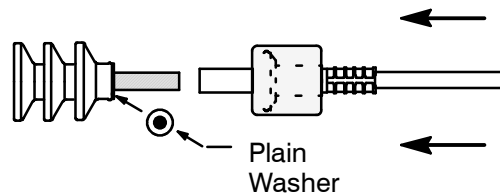
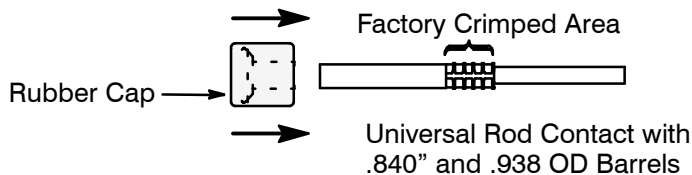


STEP 9A

For Universal Rod Contacts with .840" OD Barrels. Contact 00500230, 00500240, 00500250 and with .938" OD Barrels. Contact 00500260, 00500270

NOTE: For Universal Rod Contacts with .625" OD Barrel, go to Step 8B Rubber cap is not assembled until Step 11.

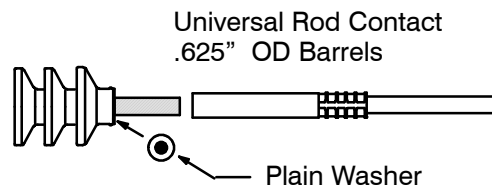
1. Apply supplied lubricant or ELASTIMOLD approved lubricant sparingly to the inside of the rubber cap and the outside of the conductor contact. **DO NOT SUBSTITUTE.** Other lubricants may be harmful to this product.
2. Slide the rubber cap onto the conductor contact starting from the bottom, making sure that the small inside diameter of the cap goes on first as shown. Completely remove the wrap of tape from the cable conductor and if using aluminum conductor, wire brush the bare conductors. Place the plain washer over the bared conductor. Immediately slide the contact on to the conductor. Carefully clean excess inhibitor from the area around the top of the terminator. Slide the rubber cap down the contact so it is fully seated and the groove in the bottom of the cap snaps into place over the matching ring on the top of the terminator housing.



STEP 9B

For Universal Rod Contacts with .625" OD Barrels. Contact 00500180 to 00500220, 00501230, 00501240.

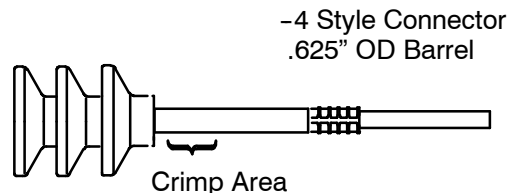
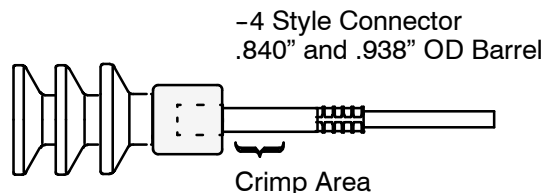
Completely remove the wrap of tape from the cable conductor and if using aluminum conductor, wire brush the bare conductors. Place the plain washer over the bared conductor. Immediately slide the contact on to the conductor. Carefully clean excess inhibitor from the area around the top of the terminator.



STEP 10

For All Rod Contacts (.625", .840" and .938" Barrels)

Beginning at the upper (or top) crimp mark on the contact, start the first crimp, crimping towards the terminator and rotating each successive crimp 90° or 180°. When crimping, the contact should be held tightly pushing down towards the plain washer. (Refer to the crimp chart for the -4 style crimp barrel packaged with the contact).



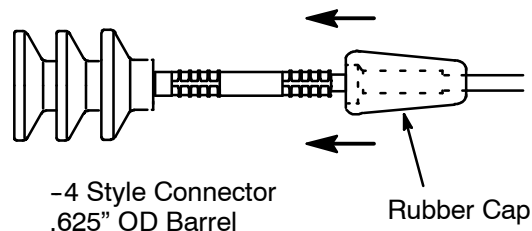
STEP 11A (.840" and .938" Barrels)

Check position of terminator cap to be sure that cap did not move during crimping of the connector. Reposition if necessary.

STEP 11B

For Universal Rod Contacts with .625" OD Barrel.

Carefully wipe excess inhibitor from the contact and terminator housing after crimping. Apply supplied lubricant sparingly to the inside of the rubber cap and the outside of the conductor contact. DO NOT SUBSTITUTE. Other lubricants may be harmful to this product. Slide the rubber cap down the contact so it is fully seated and locked on the terminator housing. Make sure the groove in the bottom to the cap snaps into place over the matching ring on the top of the terminator housing.

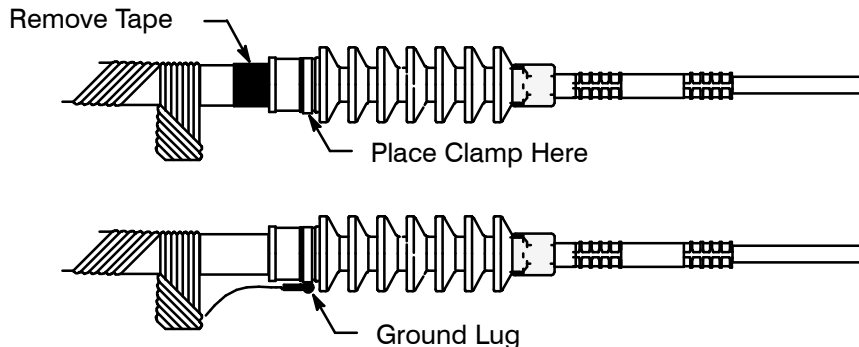


STEP 12

Make the takeoff on the universal rod contact as desired.

STEP 13

If the terminator is not bracketed, place the grounding clamp around the terminator base. It is to be located directly under the shoulder and above the projecting rib. The dimension between the shoulder and the rib is $\frac{1}{2}$ " (12,7mm) so after assembly, the clamp can not move up or down. Remove the marking tape and wipe off any grease on the cable. Insert a separate No. 14 AWG (2,5mm²) copper wire or equivalent into the crimp lug supplied with the ground strap and crimp. Do not use one of the twisted concentric neutral wires. Connect the loose end of the No. 14 AWG (2,5mm²) wire to the concentric neutral wires on the cable and securely connect the twisted concentric neutral wires to ground.



STEP 14

If the terminator is to be bracketed, refer to the installation instructions supplied with specific mounting bracket.

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