

Installation Instructions 10TL Adapters For Cables with Tape Insulation Shield or UniShield ®**

CONTENTS: Adapter housing, Lubricant (DO NOT SUBSTITUTE), Installation Instructions.

The 10TL is designed for use in conjunction with ELASTIMOLD distribution products for connecting and/or terminating cable with tape insulation shields.

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

- Check contents of package to ensure they are complete and undamaged.
- 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.

NOTES:

- The installation instructions packed with the ELASTIMOLD distribution product(s) are a REQUIRED SUPPLEMENT to these instructions.
- 2. The 10TL does not provide a means for grounding cable. Refer to STEP 9 of the instructions for tape shielded cables for suggested method of grounding when using the 10TL.
- 3. Read each step thoroughly before installing the 10TL.

_ . . _ . . .

The pages of these instructions are numbered. To locate the applicable instructions for cable type, refer to the following listing.

0 4 DI E TVDE

PAGE NO.	CABLE TYPE
2	Flat Metallic Tape Shielded Cable with Tape Insulation Shield
4	Lead Sheathed Cable with Tape Insulation Shield
5	UniShield Cable

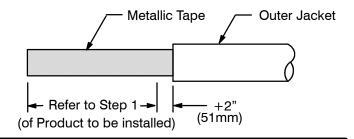
^{*} UniShield is a registered trademark of Anaconda Wire and Cable Co.



FOR SEMICONDUCTING TAPE INSULATION SHIELD WITH FLAT METALLIC TAPE DRAINS

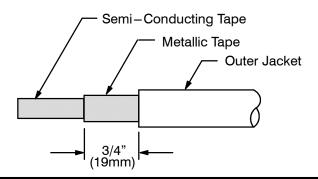
STEP 1

The instructions for the Elastimold product being used with this adapter specify the dimension for the removal of the semiconductive shield (normally specified in or near Step 2 of those instructions). Remove the outer jacket a distance of 2" (51mm) more than this dimension.



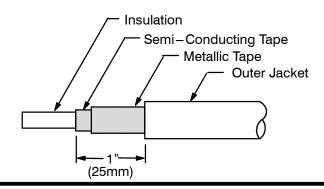
STEP 2

Remove metallic tape to a point 3/4" (19mm) from the edge of the outer jacket.



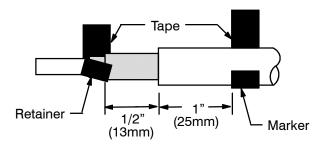
STEP 3

Remove semiconducting tape to a point 1" (25mm) from the edge of the outer jacket.

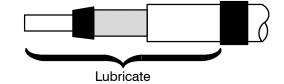


STEP 4

Wrap 1-1/2 to 2 turns of 3/4" (19mm) wide PVC insulating electrical tape over the semiconducting and metallic tapes 1/2" (13mm) from the edge of the outer jacket. This is to serve as a tape retainer which keeps the metallic and semiconducting tapes in place during assembly. Wrap 2 turns of vinyl plastic electrical tape over the outer jacket 1" (25mm) from the edge of the outer jacket. This is to serve as a tape marker.

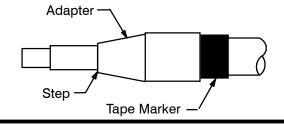


Clean the outer jacket and thoroughly clean the insulation to remove all traces of semiconducting residue. This may be done by wiping with a rag soaked with an approved safety solvent. Always wipe from the end of the cable toward the outer jacket. Lubricate the cable as shown and the inside of the adapter.



STEP 6

Slide the adapter onto the cable with a foward side to side twisting motion until it is flush with the tape marker. The step on the adapter serves as a marker for assembling ELASTIMOLD products on the cable.



STEP 7

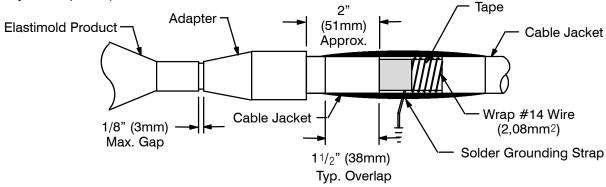
Install the ELASTIMOLD product following the installation instructions supplied with that product. After installation, a 1/8" (3mm) maximum gap between the product and the step on the adapter is permissible. See step 9.

STEP 8

Remove tape marker from cable after assembly of the ELASTIMOLD product.

STEP 9

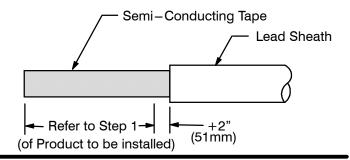
Approximately 2" (51mm) back from the end of the adapter remove the outer jacket a distance of 1-1/2" (38mm). Using #14 AWG (2.08mm²) wire and a grounding lead, fasten the grounding lead to the metallic shielding tape by making several wraps with the #14 AWG (2.08mm²) wire as shown. Solder the ground lead to the metallic tape. Avoid excessive heat so the cable is not damaged. After soldering, wrap the soldered area with electrical insulating tape and overlap each cable jacket approximately 1 1/2" (38mm).



FOR LEAD SHEATHED CABLE WITH TAPE INSULATION SHIELDS

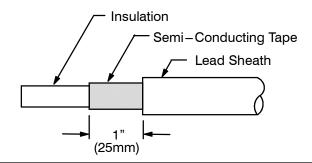
STEP 1

The instructions for the ELASTIMOLD product being used with this adapter specify the dimension for the removal of the semiconductive shield (normally specified in or near Step 2 of these instructions). Remove the lead sheath a distance of 2" (51mm) more than this dimension.



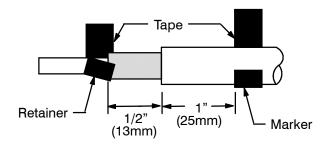
STEP 2

Remove semiconducting tape to a point 1" (25mm) from the edge of the lead sheath.



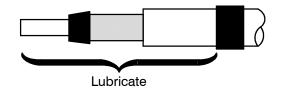
STEP 3

Wrap 1-1/2 to 2 turns of 3/4" (19mm) wide PVC insulating electrical tape over the semiconducting tape 1/2" (13mm) from the edge of the outer jacket. This is to serve as a tape retainer which keeps the semiconducting tape in place during assembly. Wrap 2 turns of vinyl plastic electrical tape 1" (25mm) from the edge of the outer jacket. This is to serve as a tape marker.



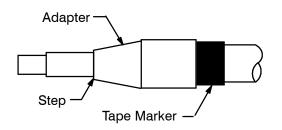
STEP 4

Clean the lead shield and thoroughly clean the insulation to remove all traces of semiconducting 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 semiconducting tape. Lubricate the cable as shown and the inside of the adapter.



STEP 5

Slide the adapter onto the cable with a foward side to side twisting motion until it is flush with the tape marker. The step on the adapter serves as a marker for assembling ELASTIMOLD products on the cable.



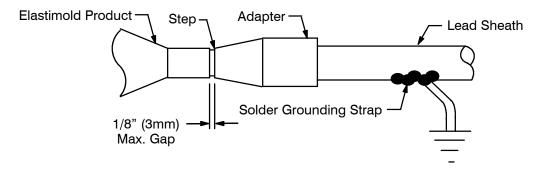
Install the ELASTIMOLD product following the installation instructions supplied with that product. After installation, a 1/8" (3mm) maximum gap between the product and the step on the adapter is permissible. See step 8.

STEP 7

Remove tape marker from cable after assembly of the ELASTIMOLD product.

STEP 8

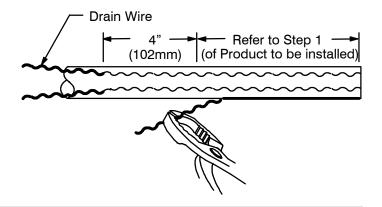
Solder a grounding strap to the lead sheath as illustrated.



FOR UniShield® CABLE

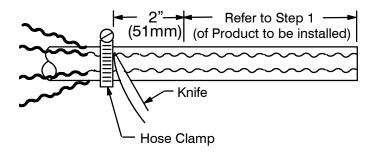
STEP 1

The instructions for the ELASTIMOLD product being used with this adapter specify the dimension for the removal of the semiconductive shield (normally specified in or near Step 2 of these instructions). Add 4" (102mm) more to this dimension. Pull drain wires out of semiconductive jacket. Temporarily secure drain wires out of way.

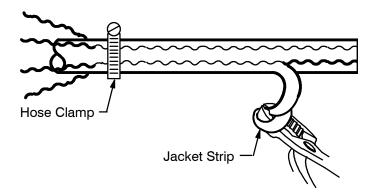


STEP 2

Install a hose clamp for semiconducting jacket cutoff as shown. Using hose clamp as straight edge, cut around, but not completely through, semiconducting jacket. DO NOT NICK INSULATION. Longitudinal jacket cuts are **not** required.

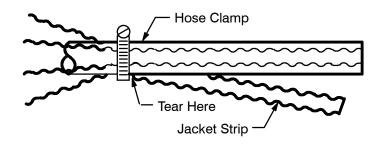


Roll back semiconducting jacket strips to hose clamp.



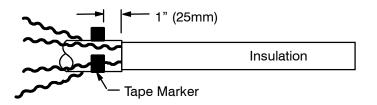
STEP 4

Pull jacket strips and tear against hose clamp. Remove hose clamp and **carefully** trim jagged pieces along semiconducting jacket cutoff and drain wire grooves. DO NOT NICK INSULATION.



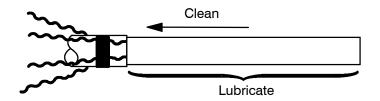
STEP 5

Wrap 2 turns of vinyl plastic electrical tape over the semiconducting jacket 1" (25mm) from the edge of the semiconducting jacket.



STEP 6

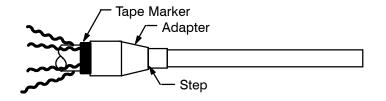
Clean the jacket and thoroughly clean the insulation to remove all traces of semiconducting residue. This may be done by wiping with a rag soaked with an approved safety solvent. Always wipe from the end of the cable toward the jacket.



Lubricate the cable as shown, and the inside of the adapter.

STEP 7

Slide the adapter onto the cable with a foward side to side twisting motion until it is flush with the tape marker. The step on the adapter serves as a marker for assembling ELASTIMOLD products on the cable.



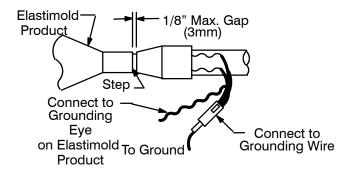
STEP 8

Install the ELASTIMOLD product following the installation instructions supplied with that product. After installation, a 1/8" (3mm) maximum gap between the product and the step on the adapter is permissible. See step 10.

Remove the tape marker from the cable after assembly of the ELASTIMOLD product.

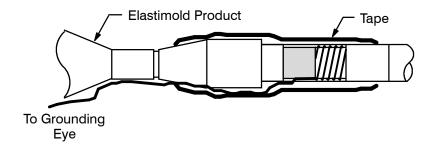
STEP 10

Move one drain wire aside and twist remaining drain wires together. Cut twisted drains wires to 1" (25mm) long and connect to grounding wire. Connect long drain wire to the grounding eye on the Elastimold product being used.



STEP 11

Apply 2 layers of high voltage insulating tape over drain wires and connector. Apply 2 layers of PVC tape over adapter base, drain wires and connector. Overlap jacket approximately 2" (51mm). Attach grounding lead to system ground. WARNING: UNGROUNDED SHIELDS ARE DANGEROUS.



Thomas@Betts

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