

Installation Instructions: 15/25/35PCJ2WXXX-RR

W = Housing size's: F,G,H,J

CONTENTS: Joint Housing, Splice (Conductor Contact), 2-Retaining Rings, Lubricant (DO NOT SUBSTITUTE), Installation Instructions.

The straight joint is a permanent, fully shielded, fully submersible joint for aluminum and/or copper conductor, wire shielded cables, with a continuous operating current rating equal to that of the cable on which it is installed and a rated voltage as indicated on the joint housing.

DANGER

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

Do not touch or move energized products in the work area.

These instructions do not attempt to provide for every possible contingency.

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

This product should be installed only by competent personnel trained in FOR MORE INFORMATION ON PARTS, INSTALLATION RATINGS AND COMPATIBILITY, CALL THE NEAREST ELASTIMOLD® OFFICE.

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.

All apparatus must be installed and operated in accordance with individual user, local and national work rules and electrical standards.

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.

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

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

IMPORTANT

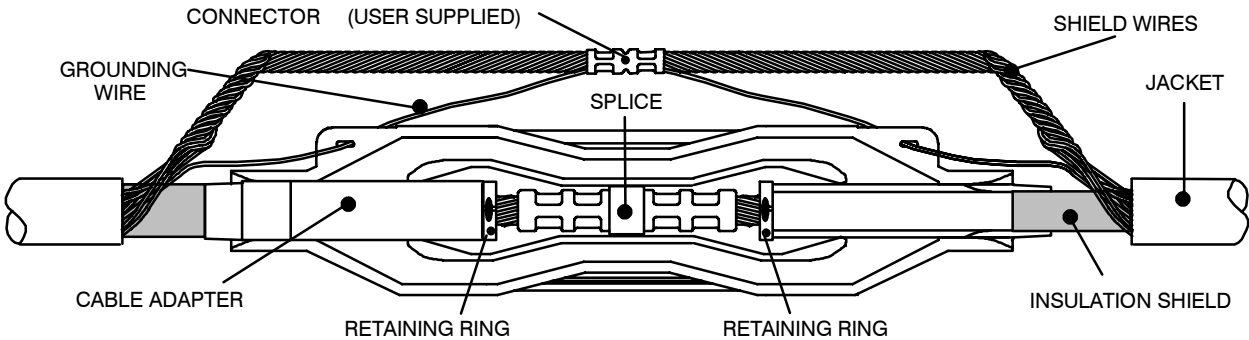
1. Using the component list, check contents of package to ensure they are complete and undamaged.
2. Check all components to ensure proper fit with cable and/or mating products.
3. Read entire installation instructions before starting.
4. Have all required tools at hand and maintain cleanliness throughout the procedure.
5. Examine the mating cable ends, both cables should be free from moisture and other contaminants.
6. Graphite coatings shall be removed (circular cutting tool or scraped with glass 12" (30.5cm) beyond the cable jacket cut. DO NOT SAND.
7. Examine the conductor(s), if strand filled or water-blocking material is present, the installer or customer must contact the cable manufacturer for procedures and/or recommendations on welding and/or crimping the conductor.

Limited Warranty:

1. T&B warrants that its products will be free from defects in materials or workmanship for a period of two (2) years, except for tools which are warranted separately (see warranty accompanying those products). Fisher Pierce® products and Elastimold® Reclosers are warranted for three years; and Joslyn™ VBT and VBU capacitor switches are warranted for four years or 40,000 operations whichever occurs first. Upon prompt notification of a warranted defect, T&B will, at its option, repair or replace the defective product.
2. In no event shall T&B be liable for any consequential, indirect or special damages, nor will T&B be liable for transportation, labor, or other charges arising out of the removal or reinstallation of its products. Liability for breach of warranty is limited to the cost of repair or replacement of the warranted product only.
3. Misuse, misapplication or modification of T&B products immediately voids all warranties.

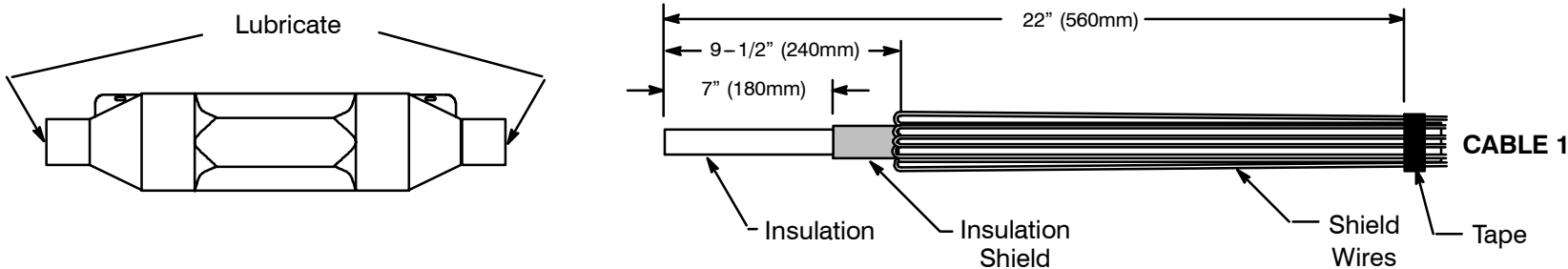
THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES AND REMEDIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE SPECIFICALLY DISCLAIMED.

This connection step should be accomplished pursuant to the instructions provided with the respective connector products. Materials are not included for connecting the lead sheath and/or neutral wires/tapes of Cable 1 to Cable 2. Bonding cable(s), insulating and sealing tapes, solder and CNWs connectors may not be provided within this kit. Illustrations and methods for these connections are offered as suggestions. The installer is responsible for adequacy of materials and methods chosen.



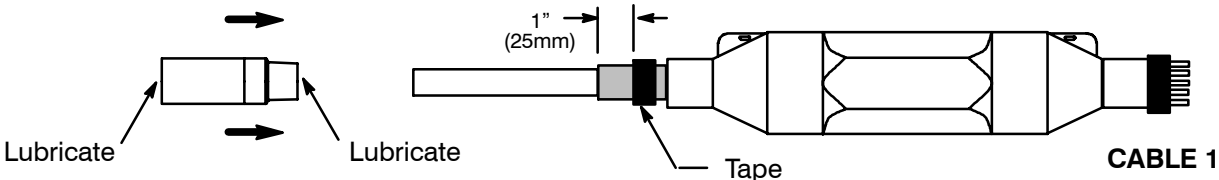
STEP A – INSTALL HOUSING

1. If using jacketed cables, carefully remove jackets of both cable jackets a distance of 9 1/2" (240mm). Use Stripping Guide at left for reference. Fold back shield wires and tape end of wires on Cable 1 to jacket. Allow enough extra length of wire to later rejoin over joint.
2. Clean surface of insulation, shield wires and jacket for a distance of 22" (560mm). Lubricate the inside of joint on both ends. Slide onto Cable 1 to a distance of 9-1/2" (240mm).
3. Use the Stripping Guide at left for reference and carefully remove insulation shield from both cables. **DO NOT CUT OR NICK THE INSULATION.**



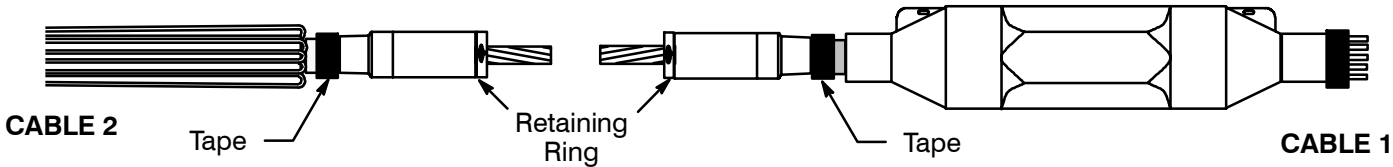
STEP B – PREPARE CABLE/INSTALL CABLE ADAPTER

1. Wrap two turns of tape 1" (25mm) from edge of insulation shield as marker on both cables.
2. Clean cable insulation. Lubricate in the direction of arrows to provide a build-up or ramp of lubricant at the edge of the insulation shield.
3. Lubricate the inside of both ends of the cable adapter and install until it meets the cable adapter as shown. Repeat for the second cable adapter.



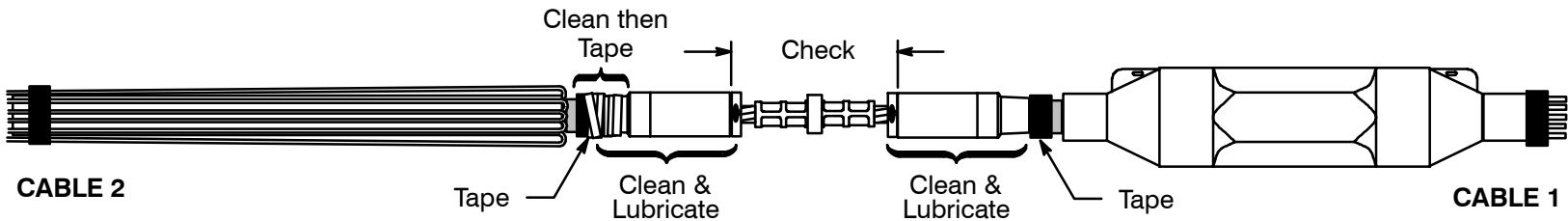
STEP C – INSTALL RETAINING RINGS

1. Bare the conductor of each cable flush with the edge of the cable adapters. **DO NOT CUT OR NICK THE CONDUCTOR.**
2. Slide the retaining ring onto the conductor of Cable 1 up to the cable adapter. Tighten the screw until the retaining ring is firmly secured to the conductor.
3. Install the second retaining ring on Cable 2 following Step 2.



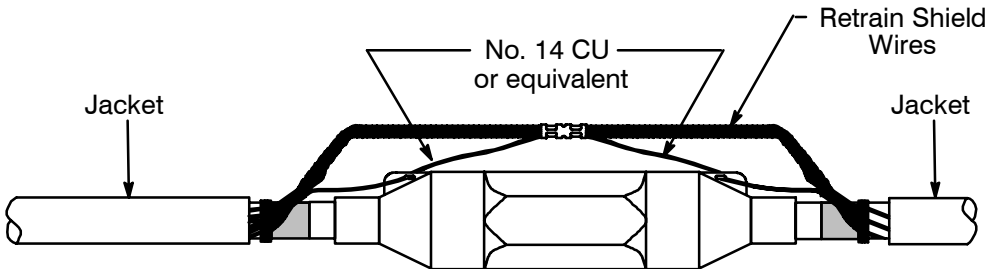
STEP D – SPLICE INSTALLATION

1. Thoroughly clean the end of the cable adapter and Cable 2. Wrap several turns of electrical tape from the adapter to the cable as shown to hold the adapter in place during final assembly.
2. Wirebrush exposed conductors of both cables and immediately insert into the splice. Confirm “Check” dimension does not exceed 5–1/8” (130mm); otherwise, redo assembly.
3. Crimp the splice following the recommendations provided with the splice.
4. Wipe off all excess inhibitor. Confirm distance between cable adapters does not exceed 5 3/8” (137mm); otherwise, redo assembly.
5. Clean and lubricate outside surface of cable adapters before sliding housing into final position.



STEP E – COMPLETE JOINT ASSEMBLY

1. Slide housing into final position, centering it over the cable adapters.
2. Remove all tape. Cable and adapter insulation must not be exposed after positioning joint.
3. Reshape shield wires and secure to ends of joint as shown.
4. Insert one of the shield wires from Cable 1 (if #14 AWG or larger) through the joint grounding eye. Repeat for Cable 2. If shield wires are smaller than #14 AWG, use separate #14 AWG copper wire or equivalent.
5. Use an appropriate connector to connect joint grounding wires and remaining shield wires, as shown.
6. Reconstruct cable jacket (where applicable) over both cables and joint housing.



THOMAS & BETTS CORP. PROPRIETARY AND CONFIDENTIAL

BY ACCEPTANCE OF THIS DOCUMENT YOU AGREE THAT ALL RIGHTS TO THE DRAWINGS AND INFORMATION CONTAINED IN IT, AS WELL AS THE SUBJECT MATTER AND ALL PROPRIETARY AND NOVEL FEATURES DISCLOSED, ARE OWNED BY THOMAS & BETTS CORPORATION (“THE COMPANY” AND A MEMBER OF THE ABB GROUP) AND THAT DEVICES EMBODYING SUCH FEATURES OR INFORMATION DERIVED FROM THESE DRAWINGS WILL NOT BE MANUFACTURED BY OR FOR YOU OR DISCLOSED TO OTHERS WITHOUT THE PRIOR EXPRESS WRITTEN CONSENT OF THE COMPANY. THESE DRAWINGS ARE NOT TO BE COPIED OR REPRODUCED OR DISCLOSED TO OTHERS WITHOUT THE PRIOR EXPRESS WRITTEN CONSENT OF THE COMPANY. ALL DRAWINGS AND INFORMATION ARE TO BE RETURNED TO UPON DEMAND OR UPON COMPLETION OF PURPOSE FOR WHICH LENT. COPYRIGHT THOMAS & BETTS CORP. ALL RIGHTS RESERVED. ALL OTHER TRADEMARKS ARE THE PROPERTY OF THEIR RESPECTIVE OWNERS.