

## CONNECTION

**Note:** For kits with reducing taps or modular splice kits, please refer to supplemental instructions packaged with those components.

### STEP 6. Connection

A. Clean and lubricate the T-Body, apparatus bushing, and insulating plug interfaces with supplied lubricant.

B. Hand tighten the loose stud into the insulating plug two or three turns if the mating interface is not equipped with one.

C. Align the T-Body to the apparatus bushing interface. Insert the insulating bushing and hand tighten to prevent cross-threading. Tighten the insulating bushing to 50-60 ft-lbs of torque using a 1" socket and a torque wrench. (See Figure 11.)

D. Clean and lubricate the test point cap and snap it onto the insulating bushing.

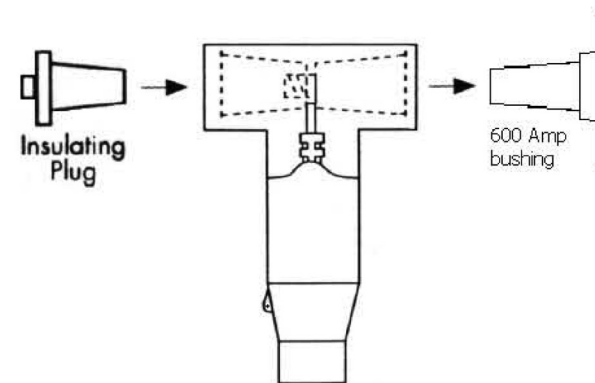


Fig. 11 - Assembly to Bushing Well

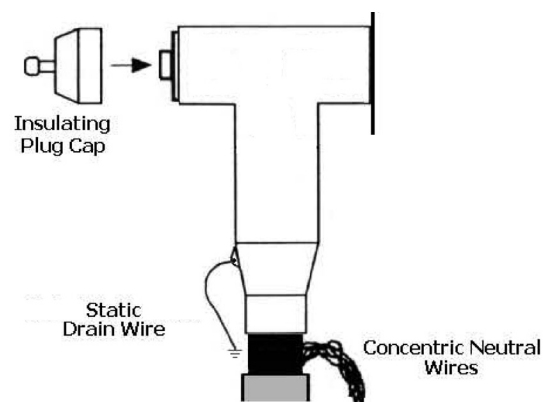


Fig. 12 - Final Steps

### STEP 7. Grounding

A. Attach a #14 AWG copper wire (or equivalent) to the grounding eye of the T-body. Twist the wire at least two turns to ensure it is secured properly. Attach the free end to system ground.

B. Twist the neutral wires into a braid and connect to system ground with appropriate connector. Make sure to provide sufficient slack in ground braid to provide for future operation. (See Figure 12.)

**HUBBELL**  
Power Systems

IS628BT



## Installation & Operating Instructions

### Hubbell Deadbreak Connector 600 A, 15 / 25 kV Class T-Body

#### DESCRIPTION

The Hubbell 600 A Deadbreak T-body Connectors are designed to terminate underground cables and provide a connection to transformers, switches, sectionalizing cabinets, and a means to create modular splices. These components conform to all requirements of IEEE Std. 386 and are designed to mate with all other manufacturer's products that also conform to IEEE Std. 386, Interface 11.

#### CONTENT OF PACKAGE

- (1) T-body Housing
- (1) Insulating Plug with Cap
- (1) Compression Connector
- (1) Cable Adapter
- (1) Stud
- (1) Instructions
- (1) Lubricant (DO NOT SUBSTITUTE)



#### INSTALLATION TOOLS

- Hand Tools
- Crimp Tools & Dies
- Torque Wrench

- 15/25 kV Class 600 A 15.2 kV

#### NOTES

- Check contents of box to ensure that it is complete and components are NOT damaged.
- A shield adaptor may be required for certain power cables.

**Important:** Read these instructions thoroughly before operating the system. Be sure that the connectors are rated for the intended energized use. (See Hubbell catalog (C7) for selecting the correct mating product.) For additional information, you may want to reference IEEE Std. 1816, Guide for Preparation Techniques of Extruded Dielectric, Shielded Cables Rated 2.5 kV through 46 kV and the Installation of Mating Accessories.

### CAUTION

The equipment covered by these instructions should be installed, operated and serviced only by competent personnel familiar with safety practices. This instruction is written for such personnel and is not intended as a substitute for adequate training and experience in safe procedures for this type of equipment.

### CAUTION

**Optional Capacitive Test Point-** When making voltage measurements, the area of and around the voltage test point must be dry and free of contaminants. The voltage test point is not intended for actual voltage measurements or phasing operations and has no direct connection to the conductor. It uses an impedance capacitance tap and only voltage indicating instruments designed for this application to establish the presence of voltage should be used. A voltage reading will indicate the presence of voltage, but a reading of no voltage is not sufficient to establish a de-energized circuit before touching the connector. Other procedures should be implemented to establish a de-energized circuit.

### DANGER

Do not touch or move energized product by hand. Failure to follow this instruction may result in serious or fatal injury, as well as damage to the product.

These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to Hubbell Power Systems, Inc.

**HUBBELL**  
Power Systems

**CABLE  
ACCESSORIES**



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NOTE: Because Hubbell has a policy of continuous product improvement, we reserve the right to change design and specifications without notice.

## CABLE PREPARATION

**NOTE:** These instructions will cover concentric neutral cable applications so please refer to cutback instructions from shield adapter kits for steps on how to prepare other types of underground power cables.

### STEP 1. Train & Remove Jacket

A. Train the cable into the final assembled position using the natural bending of the cable. Allow sufficient slack in the cable to move the T-body at least a foot from the apparatus bushing.

B. To provide sufficient length of concentric neutral conductor for grounding after installation, measure 14-1/2" down the cable from the centerline of the bushing interface and remove the jacket to this distance. Care should be taken not to damage neutral wires. (See Figure 1.)

C. Bend neutral wires out of the way. (See Figure 2.)

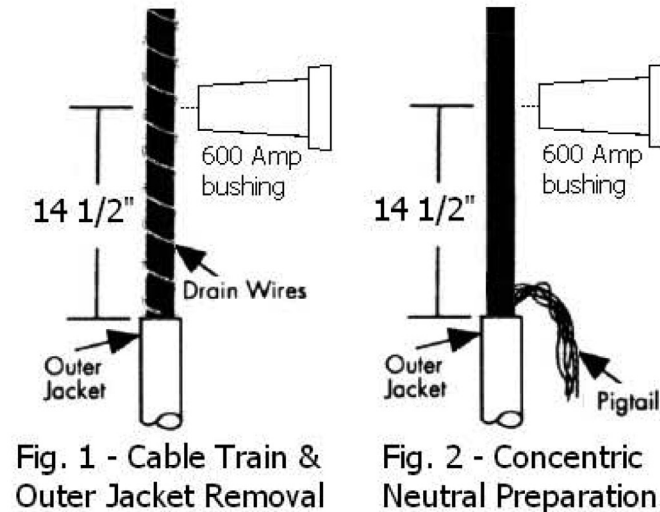


Fig. 1 - Cable Train & Outer Jacket Removal

Fig. 2 - Concentric Neutral Preparation

### STEP 2. Cable Preparation

A. Cut the excess cable off square and 1-3/4" below the centerline of the bushing. (See Figure 3.)

B. Remove the insulation shield 9-3/4" back from the end of the cable. Cut squarely, making sure not to nick or damage the insulation.

C. Apply two layers of PVC onto the insulation shield 10-3/4" back from the end of the cable. This will serve as a temporary marker for locating the cable adapter. (See Figure 4.)

D. Remove insulation to expose 4-1/2" bare conductor. Cut squarely making sure not to cut or nick the conductor. (See Figure 5.)

E. Bevel the insulation end 1/8" max. Thoroughly clean the insulation.

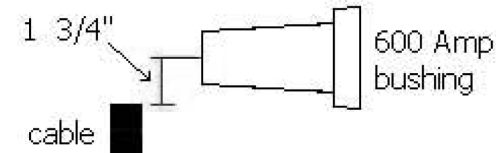


Fig. 3 - Cable Train Dimensions

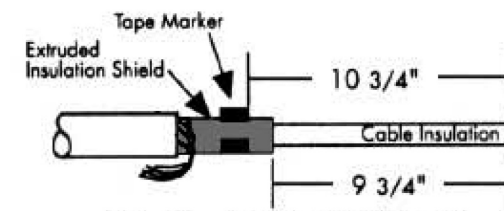


Fig. 4 - Shield Cutback

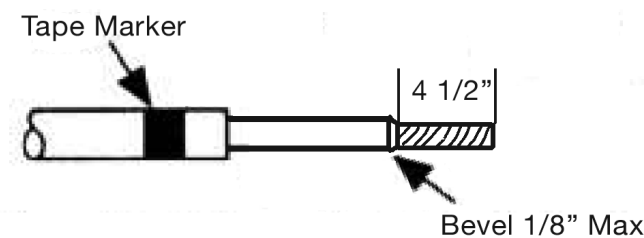


Fig. 5 - Insulation Cut Back

## INSTALLATION

**NOTE:** The end of the jacket should be sealed to prevent water ingress into the housing. It is recommended to use commercially available products to reconstruct the cable jacket.

### STEP 3. Cable Adapter Installation

A. Apply a thin, uniform coating of the supplied lubricant to the bore of the cable adapter and the cable insulation. DO NOT SUBSTITUTE as other lubricants may be harmful to products.

B. Slide cable adapter onto cable until it is flush with the tape marker. (See Figure 6.)

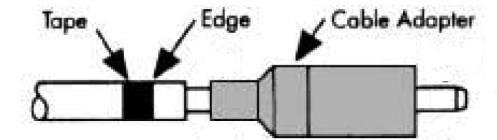


Fig. 6 - Install Cable Adapter

### STEP 4. Connector Installation

A. Use a wire brush to clean the exposed conductor and immediately install the compression connector on the conductor. Rotate the connector to spread the inhibitor. Make sure the connector is fully seated. Verify check dimension is less than 6 1/2" prior to crimping. (See Figure 7.) Refer to crimp chart packed with connector.

C. Wipe off excess inhibitor at the base of the connector and smooth any sharp edges on crimps of lug. Measure check dimension after crimping to verify it is between 6-1/2" to 7-1/4". (See Figure 8.)

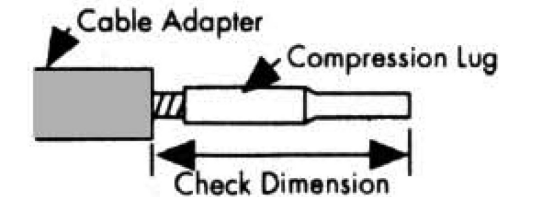


Fig. 7 - Check & Crimp

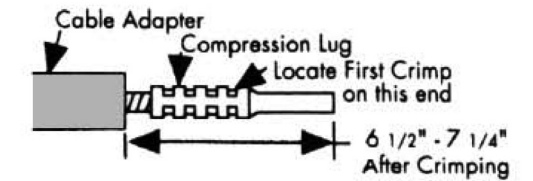


Fig. 8 - Final Crimp Dimensions

### STEP 5. T-Body Installation

A. Clean and lubricate the cable entrance of the T-Body and the outside of the cable adapter with supplied lubricant. (See Figure 9.)

B. Slide the T-Body housing onto the cable assembly, making sure the crimp connector is properly aligned with the T-body. The housing should bottom out onto the connector. Verify that the cable adapter did not move and is still flush with the tape marker. If the adapter moves, reposition it until it is again flush with the tape marker. (See Figure 10.)

C. Remove tape marker.

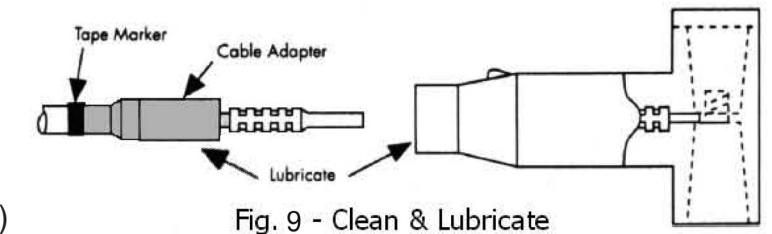


Fig. 9 - Clean & Lubricate

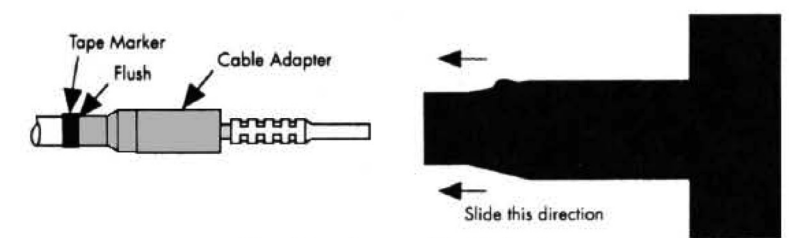


Fig.10- Assemble T-Body