WEB(K) 24-630 Deadbreak Tee Connector

INSTALLATION INSTRUCTION

Remark: Please thoroughly read and follow the steps in the installation instruction to avoid unnecessary loss!
Warning: Before installation, please make sure all systems are de-energized and fully grounded.

1. Installation of Cable Sealing Kit

Select the proper cable sealing assembly and install according to the manufacturer's installation instruction. Make sure the copper shield exposed is 177mm.

Figure 1

2. Installation of Deadbreak Tee Connector

2.1. Peeling off the Cable (Figure 2)

Remove copper shield, semi-conductive layer and main insulation according to the dimensions given in Fig.2.
Bevel the semi-conductive screen cut for 3mm to make smooth transition to main insulation.
Bevel the edge of main insulation for 1mm×45°.
Wrap the phase marking strip to the cold/heat shrink tube according to original phases.

Note:

When beveling the semi-conductive screen *cut, ensure that the knife edge faces the semi-conductive* screen *so as not to damage main insulation. There should be no scratching, cutting trace or conductive particles on the main insulatio*

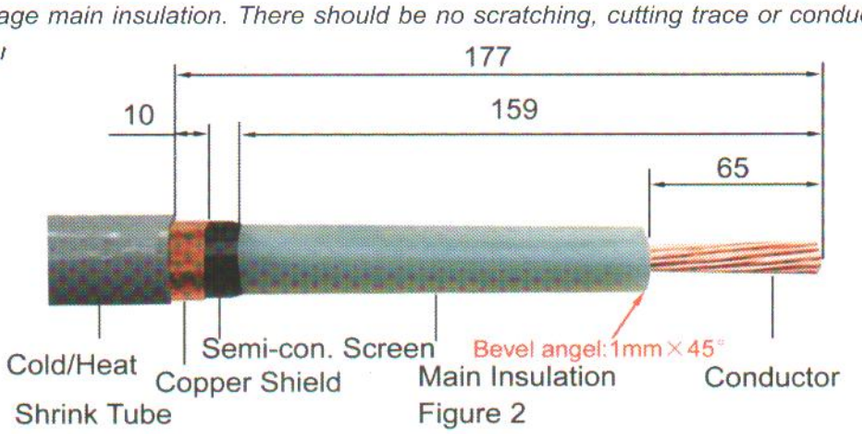


Figure 2

2. 2.Wrap Semi-conductive Tape（Figure 3）

Wrap 2 layers of semi-conductive tape around the copper tape shield, overlapping the cold/heat shrink tube and semi-conductive screen for 5 mm, respectively. Transition from cold/heat shrink tube to semi-conductive screen is smooth.

2.3. Cleaning the Main Insulation (Figure 3)

Clean the surface of main insulation and semi-conductive layer with cleaning paper. Check the main insulation. If any scratching, cutting trace or conductive particle exists, abrade and clean the main insulation once again.

Note:

When cleaning the main insulation, always start from main insulation towards semi-conductive layer. Never move back and forth.

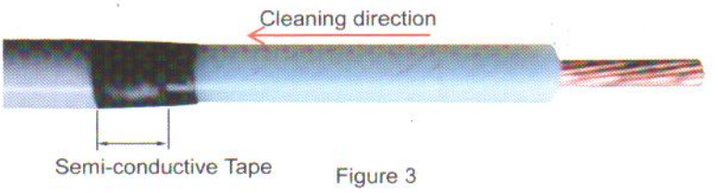


Figure 3

2. 4. Installation of Cable Adapter (Figure 4)

2.4.1.Cover the end of the conductor with PVC tape.

2.4.2.Measure 225mm from end of conductor. Wrap PVC tape to serve as marker (reference line) for cable adapter location.

2.4.3.Lubricate the main insulation and the inside surface of the cable adapter with silicone grease. Apply more silicone grease over the main insulation cut for easier installation.

2.4.4.Push the cable adapter over the main insulation until the conductor exposed is 55mm. Check the length between end of cable adapter and reference line. The length should be less than 5mm.

2.4.5.Remove the PVC tape and wipe off excess silicone grease.

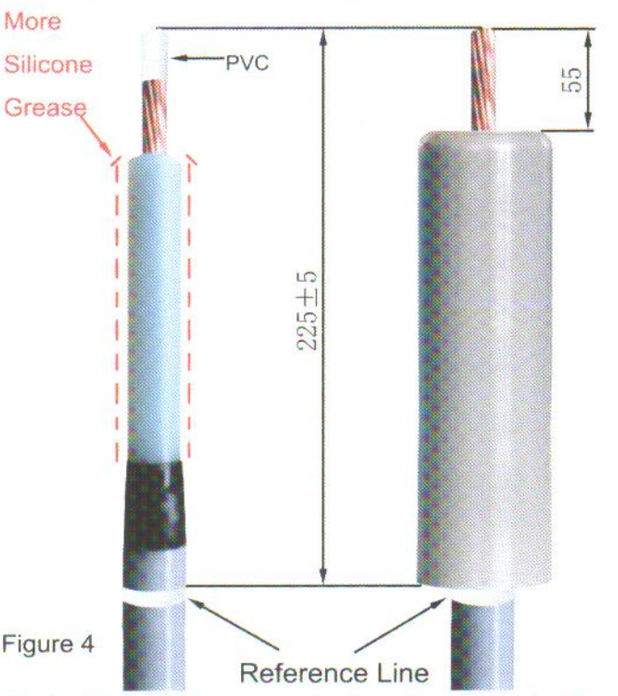


Figure 4

Paste silicone grease evenly along the red dotted line

2.5. Crimping the Lug (Figure 5)

Insert the conductor into lug and compress with standard crimping dies. Ensure that the flat surface of the lug faces the bushing. Remove any burrs from the lug with abrasive tape. Wipe excess residues from lug and cable adapter surface.

Note: *Don't overlap crimps.*

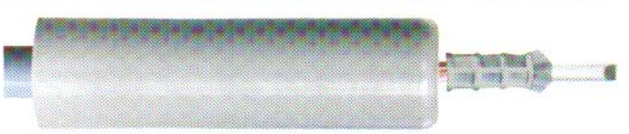


Figure 5

2.6.Installation of Tee Connector (Figure 6)

2.6.1.Lubricate the surface of the adapter and the inside surface of the Tee connector with silicone grease.

2.6.2.Check if the angle of Tee connector is correct. Push Tee connector onto the cable until the hole of the lug is centered in **630A interface**. The cable adapter protruding out of Tee connector should be 48±5mm.

2.6.3.Tighten M16/M12 two-headed screw into the bushing. Clean and lubricate a thin film of silicone grease on the interfaces of bushing and Tee connector.

2.6.4.Push Tee connector into the bushing ensuring that the two-headed screw of the bushing passes through the hole of the lug.

Note:

The crimping lug must be in the correct position. Take care not to scratch the screw when pushing the Tee connector into the bushing.

For single connection

2.7.Successively assemble flat washer, spring washer and hex nut onto the Tee connector. Tighten the hex nut into thread of two-headed screw with supplied spanner wrench. The torque is about 40N.m.

Clean and lubricate the mating interfaces of Tee connector and insulated plug. Position the nylon belt onto the connector interface for air exhausting. Thread the insulated plug into the connector and pull out the nylon belt before the plug is fully seated. Put on the end cap.

2.8. Repeat for the other two cores with a minimum clearance of 5 mm.

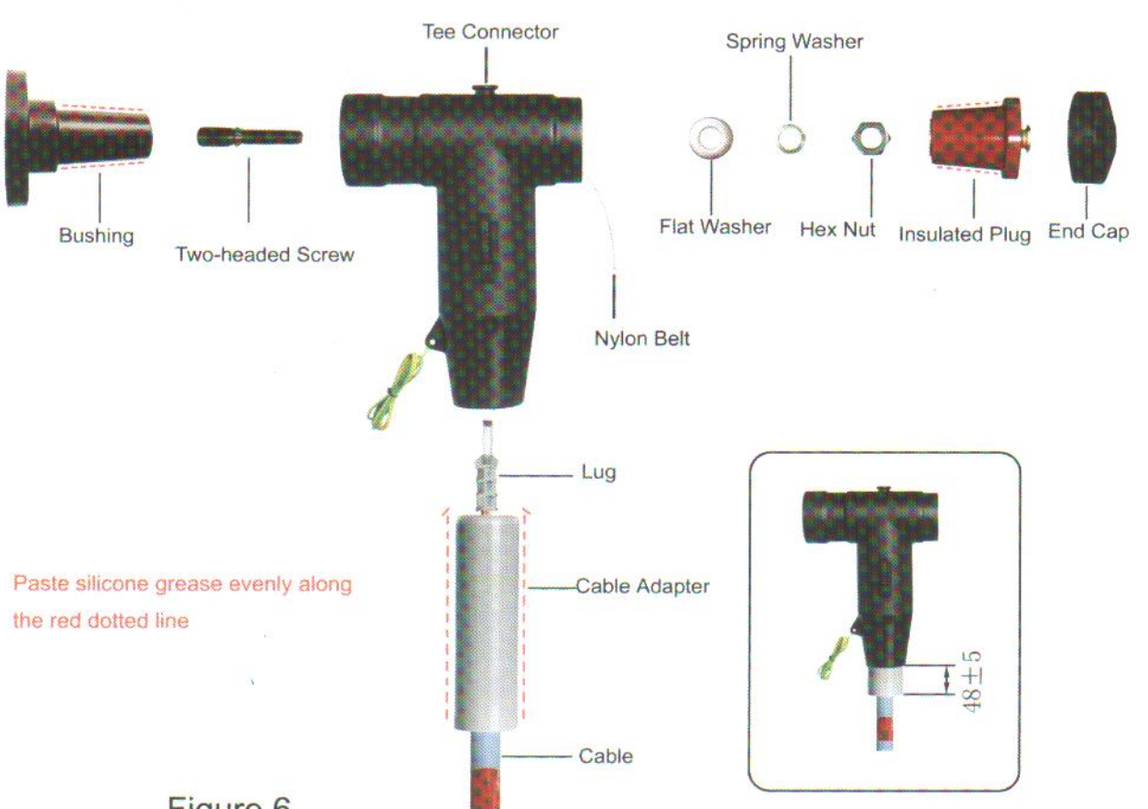
2.9.Fix the cable

Fix the trifurcation part of the cable and connect earth wire to system ground effectively.

Note:

The mating interfaces must be clean and lubricated with silicone grease. Discard the nylon belt after installation of the insulated plug.

(Tee connector installation completed.)



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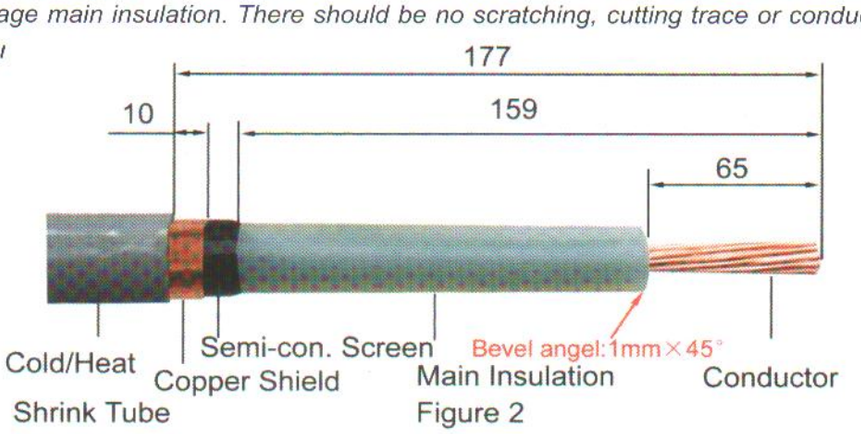

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