

# Deadbreak Tee Connector 630A 93-EE9X5-4-Exp-A-1/C Series

Tee Connector: 24 kV – 125 kV BIL Conforms to: IEC 502-4, VDE 0278

## **Instructions**



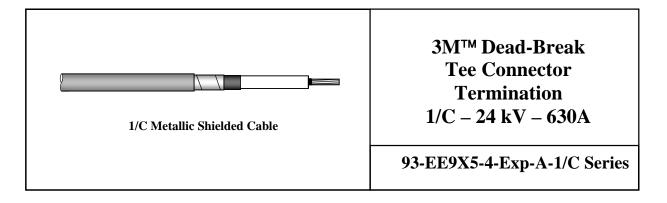
Kit		Insulation OD	Cross Section
Fore Tee	Sub Tee	(mm)	(mm2)
93-EE905-4/35-Exp-A	93-EE905-4/35-Exp-B	17.520.0	35
93-EE905-4-Exp-A	93-EE905-4-Exp-B	19.522.0	50
93-EE915-4-Exp-A	93-EE915-4-Exp-B	21.523.5	70
93-EE925-4-Exp-A	93-EE925-4-Exp-B	23.526.5	95
93-EE935-4-Exp-A	93-EE935-4-Exp-B	23.526.5	120
93-EE945-4-Exp-A	93-EE945-4-Exp-B	26.028.0	150
93-EE955-4-Exp-A	93-EE955-4-Exp-B	27.530.5	185
93-EE965-4-Exp-A	93-EE965-4-Exp-B	30.534.5	240
93-EE975-4-Exp-A	93-EE975-4-Exp-B	30.534.5	300
93-EE985-4-E	93-EE985-4-E	34.037.5	400

#### Note:

Final determining factor for sizing is the cable insulation OD. range.

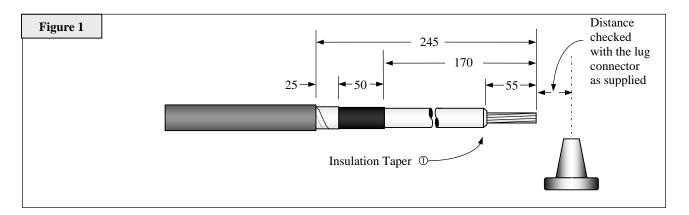
#### **Before Starting**

Check to ensure that the kit you are going to use fits the cable. Read and follow the steps in this installation instruction.



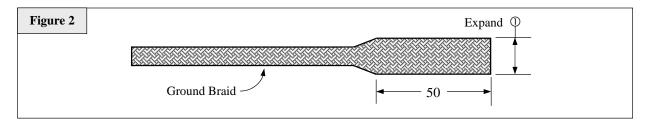
## A. Prepare Cable

- 1. Lay cable into position with cut end centered on equipment bushing. Clean cable end outer sheath ( jacket ) for ½ meter.
- 2. Prepare cable end according to dimensions shown in Figure 1. Slightly taper edge of the phase insulation ( ① Figure 1 ).

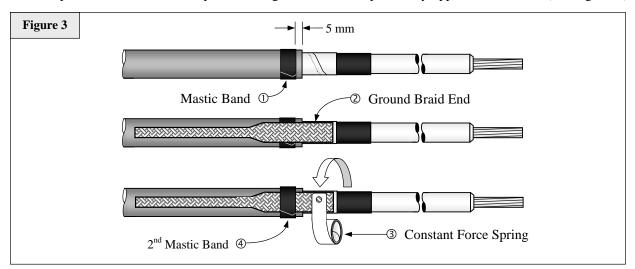


## B. Attach Metallic Shield Grounding Braid

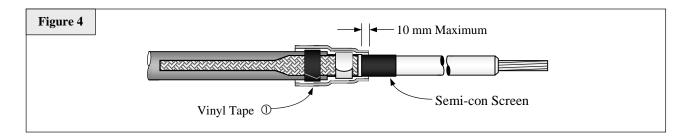
1. Expand ground braid end for 50 mm ( ① Figure 2 ).

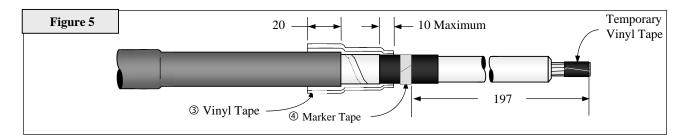


- 2. Wrap a single mastic seal strip band around cable jacket 5 mm from cut edge ( ① Figure 3 ).
- 3. Position expanded ground braid end over cable metallic shield and mastic band (② Figure 3). Secure braid to shielding using supplied constant force spring (③ Figure 3).
- 4. Wrap a second mastic seal strip band over ground braid and previously-applied mastic band ( @, Figure 3 )

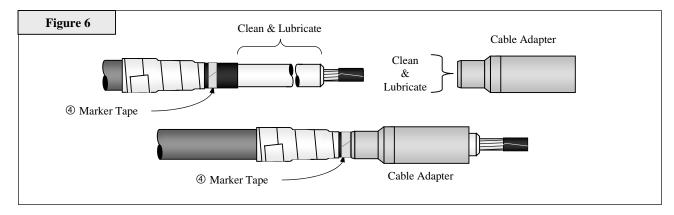


5. Apply two highly-stretched half-lapped layers vinyl tape over spring and sealing mastic ( ① Figure 4 ). Caution: Do not extend vinyl tape wrapping more than 10 mm onto cable semi-conductive screen.



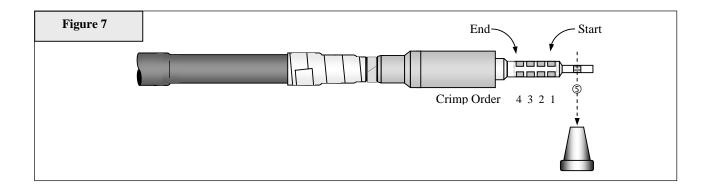


- 6. Temporarily apply two layers of vinyl tape at the end of conductor. Place a marker tape on semi-con (197 mm from cable core end ④ Figure 5). Thoroughly clean cable phase insulation using solvent wipe from supplied cable preparation kit.
- 7. Clean the outer surface of the insulation and inner surface of the cable adapter. Apply a thin layer of silicone grease to the cable insulation and the inside bore of the cable adapter (Figure 6). Slide the cable adapter in one sequence completely onto the cable insulation, small end first, until the tube end aligns with the marker tape ( ④ Figure 6 ).

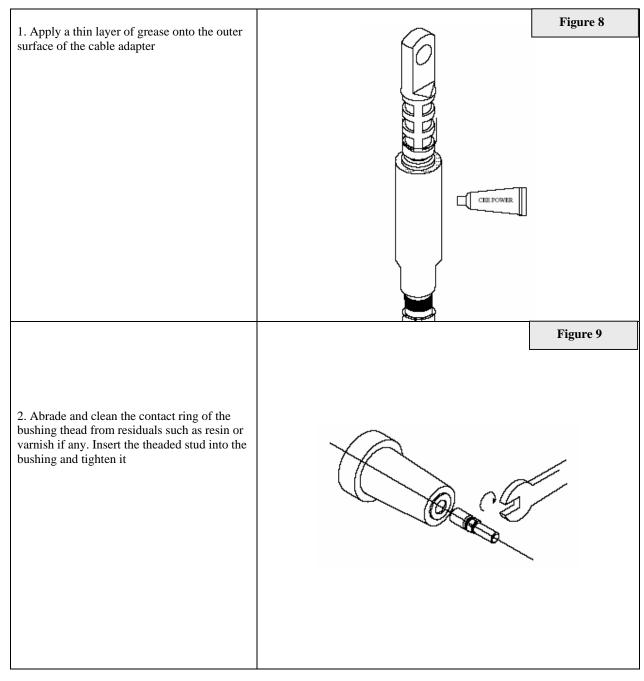


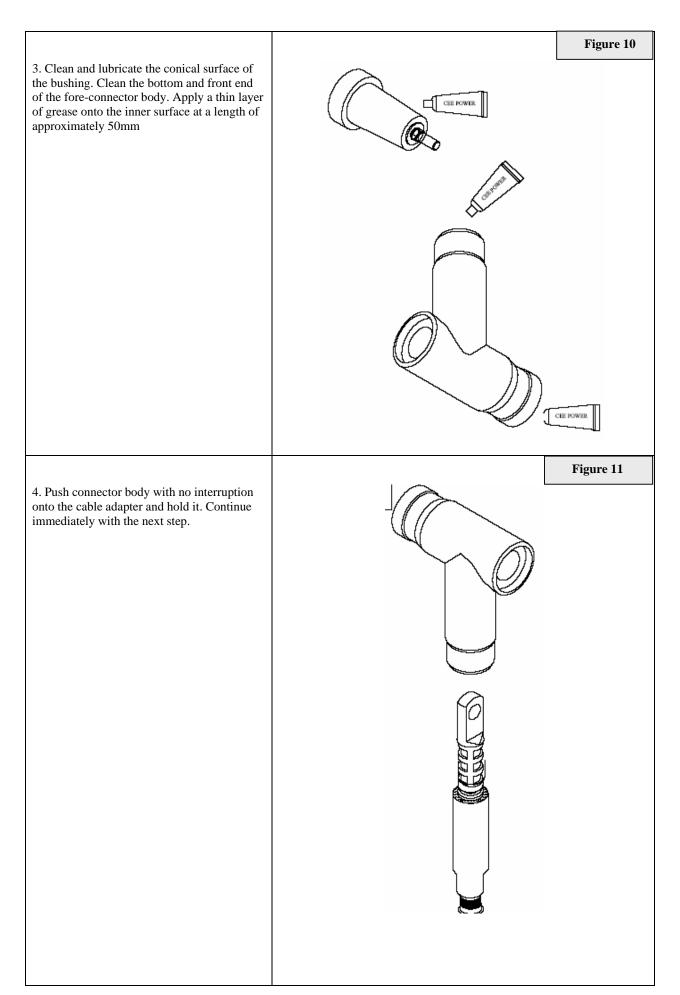
### 8. Install Terminal Lug

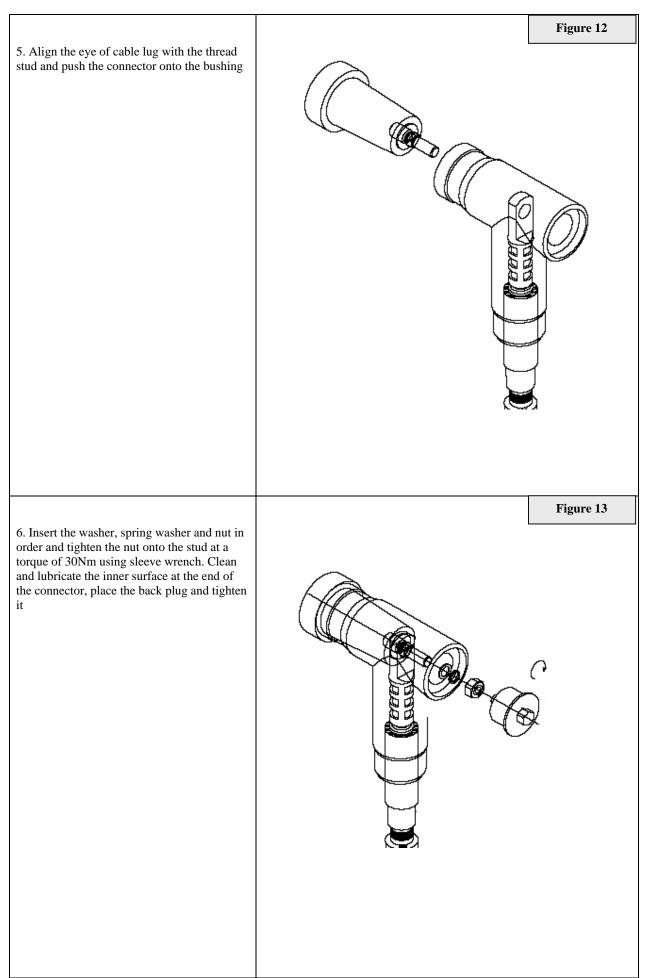
- (a) Remove the protection (temporary vinyl) tape from the conductor.
- (b) Push on the cable lug onto the conductor until it stops and rotate it to distribute the inhibitor. Ensure that the flat surface of the lug (lug hole) faces the equipment bushing thread hole or splice connecting plug interface surface as shown (⑤ Figure 7).
- (c) Crimp the lug connector with appropriate die and compression tool, starting at the upper shoulder as shown (Figure 7). Rotate the crimping tool 90 degrees with each successive crimp.
- (d) Remove any sharp edges. Clean and degrease the lug and the outer surface of the cable adapter from any excess oxide inhibitor that may have come out of the terminal lug barrel.

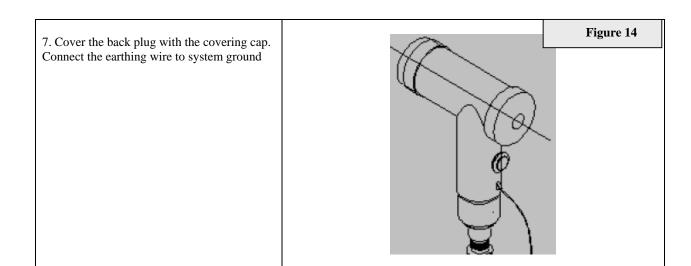


## Install Shielded Fore Connector (Tee Body) and Connect Tee Body to Equipment Bushing





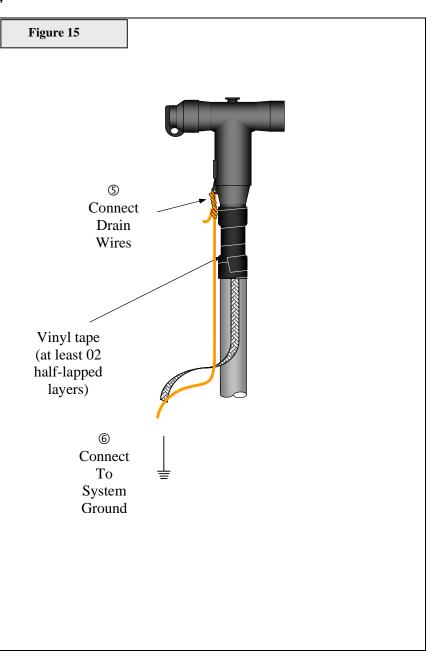




## **Sealing and System Grounding**

For all fore Tee-connectors already installed:

- 1. Seal base of each tee body to cable phase re-jacketing tube using at least two half-lapped layers of vinyl tape. Extend vinyl tape wrapping 25 mm onto base of tee body.
- 2. Insert copper drain wire through grounding ear of tee body as shown ( ⑤ Figure 15 ). Twist each wire to make secure tee body connection.
- 3. Connect all drain wires and shield grounding braids to system ground (earth) as shown ( © Figure 15).



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