
200A 15 AND 25kV CLASS DEADBREAK ELBOW

INSTALLATION & OPERATING INSTRUCTIONS

DESCRIPTION

The CHARDON deadbreak elbow connector is a fully screened for connecting underground cable to transformers, switching cabinets equipped with a bushings. The deadbreak elbow interface of the bushing insert meets the requirements of ANSI/IEEE 386 as defined below:

25-DE200 8.3/14.4 kV 200A、8.3 kV 200A
15.2/26.3kV 200A、15.2 kV 200A



ELBOW KIT CONTENT:

- Elbow Body with Pulling Eye/Test Point
- Compression Connector
- Probe Contact
- Probe Installation Tool
- Lubricant
- Paper Towel
- Bail Assembly
- Installation Instructions

TOOL NEEDED:

- Tape Measure
- Wire Brush
- Knife
- Cable Stripping Tool
- Crimping Tool
- Cable Cleaner
- Cable Cutters
- Emery Cloth



CAUTION: All associated apparatus must be de-energized during installation and/or maintenance.



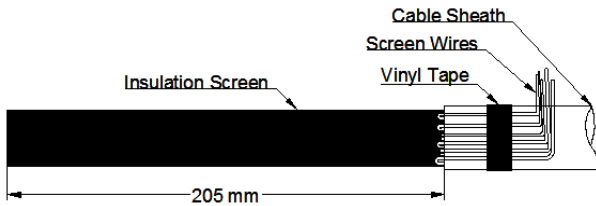
DANGER: Do not touch or move energized product by hand. Failure to follow this instruction may result in serious or fatal injury, as well as damage to the equipment.

SAFETY INFORMATION

The instructions in this manual are not intended as a substitute for proper training or adequate experience in the safe operation of the equipment described. Only competent technicians, who are familiar with this equipment should install, operate and service it.

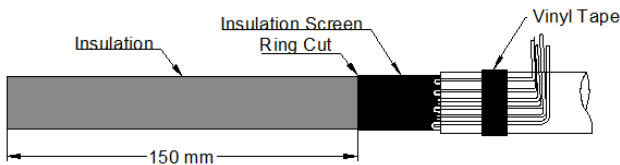
INSTALL PROCEDURE

STEP 1



- Measure down from top of the cable 205 mm. Remove the cable sheath.
- Fold the screen wires back over the sheath and secure them with two layers of vinyl tape (if screen wires is used to grounding, provide sufficient length of screen wires for grounding after installation).

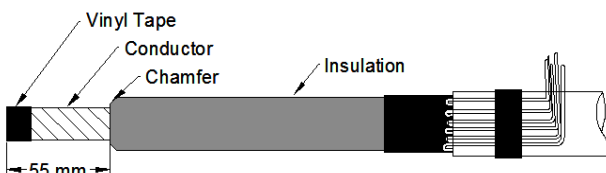
STEP 2



Measure down from the top of the cable 150 mm. Remove the insulation shield.

Note: Take care to prevent damage to the insulation. If the insulation is damaged during scoring or ring cut, the cable must be re-terminated. If the insulation requires sanding. Only a 120# or finer aluminum-oxide (emery cloth) should be used. Do not use any other abrasives.

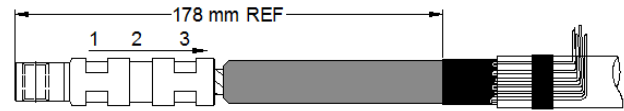
STEP 3



- Measure down from the top of the cable L mm (see table1). Remove the insulation to expose the bare conductor. Take care not to damage the conductor.
- Apply two layers of vinyl tape.
- Chamfer the edge of the insulation no more

than 5 mm at 45 degrees to ease installation.

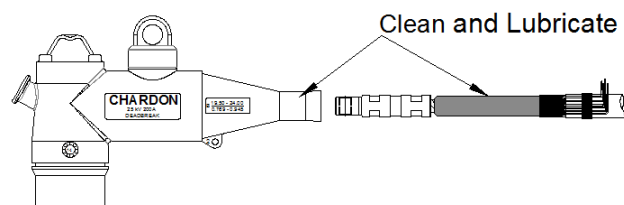
STEP 4



- Remove vinyl tape before installing connector and clean the exposed conductor using a wire brush.
- See Table1 for recommended crimp tools and dies
- Place the connector on the conductor. Make sure the threaded hole in connector faces the apparatus bushing.
- Crimp the connector starting at the shoulder and rotate the crimping tool 90 degrees between each successive crimp to prevent connector distortion.
- Re-align the connector with the cable to eliminate any bends caused by crimping
- Clean excess grease from connector by wiping toward threaded eye
- Remove any sharp edges after crimping.

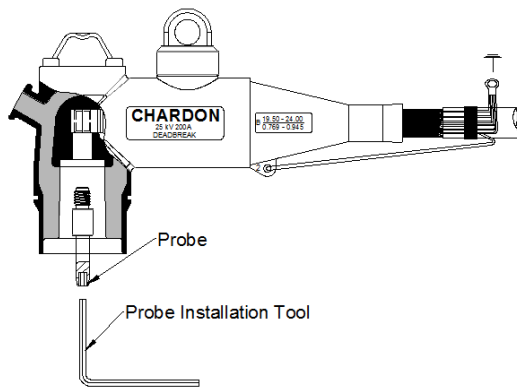
NOTE: If a cold shrink tubing or heat shrink tubing is to be used. Please install it before step 5.

STEP 5



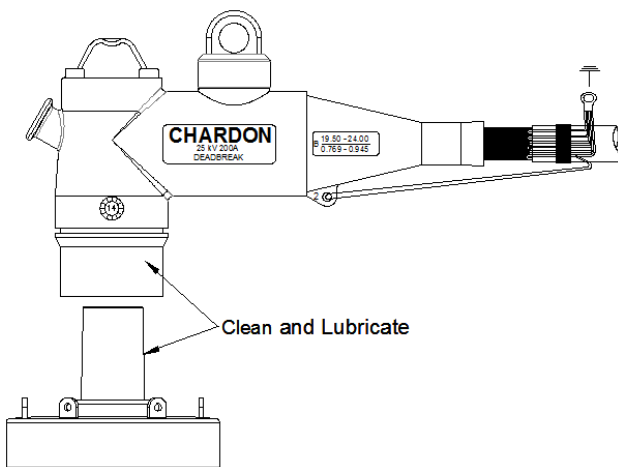
- Clean the cable insulation and the elbow with a paper towel and a suitable cleaner.
- Apply a thin layer of lubricant to the insulation of the cable and the interior of the cable end of the elbow housing
- Slide the elbow onto the cable, using a back and forth twisting motion, and Final seating of the elbow should align elbow and connector.

STEP 6



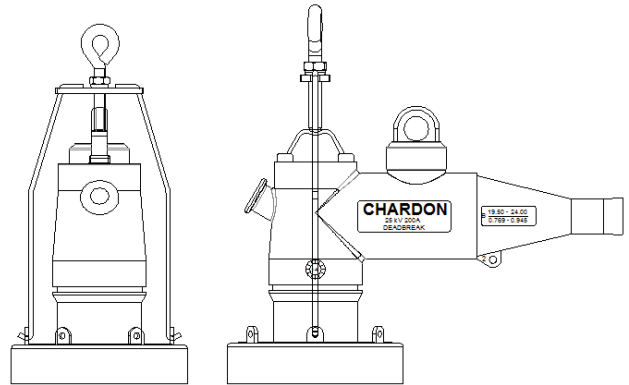
- Insert the probe into the threaded hole of the connector. Ensure that the threads are not crossed.
- Tighten the probe with the supplied probe installation tool.
- Connect some of the screen wires to the earthing eye on the elbow and connect the screen wires to earth.

STEP 7



- Clean the bushing and connector interfaces and apply a thin layer of lubricant to them
- Push the elbow onto the bushing until it is fully seated.

STEP 8



Hook the legs of the bail assembly onto the bail tabs on the bushing. Engage and tighten the knurled nuts. Thread the eyebolt of the bail assembly tight against the back of the pulling eye of the elbow.

CAUTION:

The apparatus bushing and elbow connector should not support the weight of the cable

Tabae1 Crimp Chart

Connector Diameter	Conductor Size	Burndy			Thomas and Betts		Kearney		ACA Conductor Accessories		Anderson Tool	Edison Electric Institute Rederence
		Tool	Die		Tool	Die	Tool	Die	Tool	Die		
5/8"	NO.4 THRU 2/0 STRANDED	Y34	A243 (2)	A25AR (2)	UT-3	5/8" (4)	O	5/8" NOSE (4)	12A	B24 EA(2)	VC-5 VC-6	8A
		Y35 OR Y39	U243 (2)	U25ART (2)	UT-5	TV (4)		9/16"(3)				
			UBG (2)	U687 (2)		9/16"(2)						
		MD6	W243 (2)	BG(3) NOSE	UT-15	54H (2)	WH2, WH3, WH4, BH14, PH2, PH3	572(2)				
			WBG (2)	W687 (2)								
3/4"	3/0-4/0 STRANDED	Y34	U247 (2)	A27AR (2)	UT-5	TV (4)	O	737(3)	12A	B39 EA (2)	VC-5 VC-6	8A
		Y35 OR Y39	U247 (2)	A27 ART (1)				747(2)				
			U467 (2)		UT-15	66 (2)	WH2, WH3, WH4, BH14, PH2, PH3	737(3)				
		MD6	W247 (2)					747(2)				

These instructions do not purport to cover all details or variations in equipment, not 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, please contact the Chardon Group

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