



15 kV LOADBREAK ELBOW

TECH DATA

The Chardon Electrical Components loadbreak elbow provides utilities with products having high reliability and low maintenance expense.

Elbow connector modules are suitable for energized loadmake / loadbreak operations by a qualified lineman using a shotgun-type hot stick.

PRODUCT FEATURES

1. Molded external shield - conductive, abrasion resistant 1/8-inch thick shield of peroxide cured EPDM.

2. EPDM insulation - cured with peroxide process provides superior stress-relaxation characteristics and assures long life under high-ambient temperatures. Compatible with polyethylene, crosslink polyethylene and EPR insulations.

3. Molded conductive insert - guards against high electrical stress from corners of crimped connector.

4. Hot-stick operating eye - reinforced with stainless steel ring. Withstands 300-pound pull and 10 foot-pound torque, permits energized loadmake-loadbreak operation with hot-stick tool.

5. Crimped connector - meets requirements of ANSI C119.4/NEMA CC3 for Class A connectors.

6. Capacitance tap - allows voltage indication when readout is made with suitable high-impedance devices. Elbows are available with or without this feature.

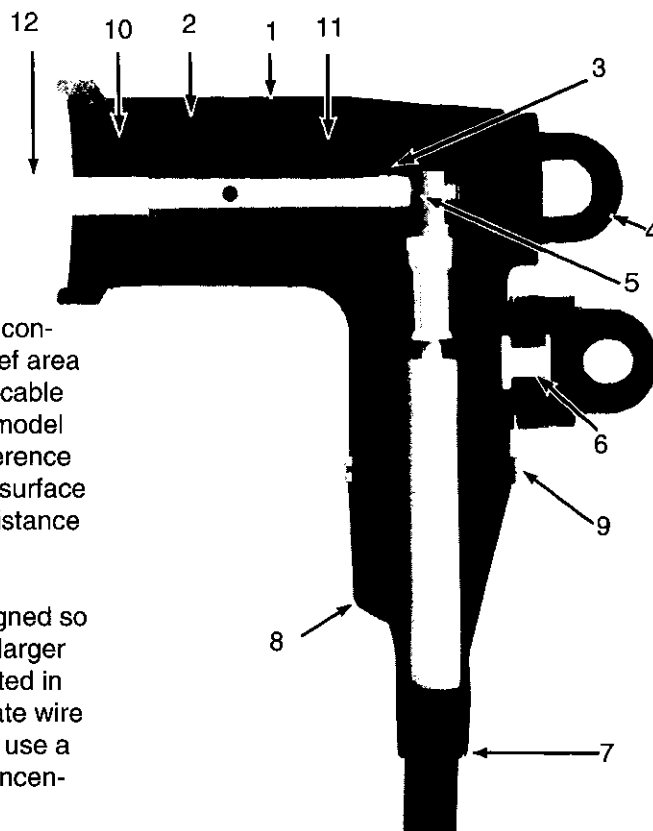
7. Cable entrance - has conductive rubber stress relief area which contacts extruded cable insulation shield. Elbow model selected to assure interference fit along cable insulation surface providing proper creep distance and water-tight fit.

8. Grounding tab - designed so that a single #14 awg or larger copper wire can be inserted in the hole. Use of a separate wire is recommended. Do not use a single strand from the concentric neutral.

9. White-black-white-band - identifies elbow (and mating bushing insert) as having phase-to-ground and phase-to-phase voltage rating. Both the black and white bands are individually removable.

10. Interface - to allow interference-fit seal when installed on mating component designed to ANSI/IEEE Standard 386 Fig. 5. Provides proper creep distance and water-tight fit, yet permits unplugging of elbow after years of service.

11. Locking ring - is a part of ANSI/IEEE Standard 386 requirement. Provides positive gripping. Initial pull-off force to unseat from mating groove in bushing insert produces fast break necessary for loadbreak switching.

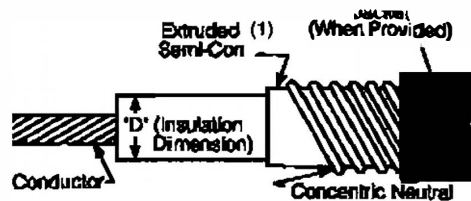


12. Probe - mates with pinch-finger contacts in bushing insert, or other switch point. Inner end has threads with pilot to aid installation in crimped connector without thread stripping. Outer end is made of ARC MATETM ablatives material that produces gas when exposed to loadbreak arc, permitting reliable interruption even with close ground spacing.

SELECTION AND ORDERING

Elbow must be sized to the cable insulation diameter. Cable manufacturer's catalogs show the nominal insulation diameter plus tolerance. Select the elbow so that the cable dimension is within the "D" dimension listed in the following tables.

In the event the cable-diameter information is not available, take several insulation measurements along a length of cable to be used with the elbow.



Cable Dimension Reference

(1) If insulation shield is not extruded, an adapter must be used to accommodate elbow.

Cable "D" Dimension (inches)		Conductor Size Copper or Aluminum		Model Numbers (2)	
Minimum	Maximum	Stranded or Compacted	Solid or Compacted	With Capacitance Tap	Without Capacitance Tap
0.635	0.830	6	4	9U01AAE621	9U01ABE621
		4	2	9U01AAE622	9U01ABE622
		2	1	9U01AAE623	9U01ABE623
		1	1/0	9U01AAE624	9U01ABE624
		1/0	2/0	9U01AAE625	9U01ABE625
		2/0	3/0	9U01AAE626	9U01ABE626
0.705	0.910	6	4	9U01AAE631	9U01ABE631
		4	2	9U01AAE632	9U01ABE632
		2	1	9U01AAE633	9U01ABE633
		1	1/0	9U01AAE634	9U01ABE634
		1/0	2/0	9U01AAE635	9U01ABE635
		2/0	3/0	9U01AAE636	9U01ABE636
0.785	1.005	3/0	4/0	9U01AAE637	9U01ABE637
		4/0	—	9U01AAE638	9U01ABE638
		6	4	9U01AAE641	9U01ABE641
		4	2	9U01AAE642	9U01ABE642
		2	1	9U01AAE643	9U01ABE643
		1	1/0	9U01AAE644	9U01ABE644
0.875	1.115	1/0	2/0	9U01AAE645	9U01ABE645
		2/0	3/0	9U01AAE646	9U01ABE646
		3/0	4/0	9U01AAE647	9U01ABE647
		4/0	—	9U01AAE648	9U01ABE648
		6	4	9U01AAE651	9U01ABE651
		4	2	9U01AAE652	9U01ABE652
0.955	1.205	2	1	9U01AAE653	9U01ABE653
		1	1/0	9U01AAE654	9U01ABE654
		1/0	2/0	9U01AAE655	9U01ABE655
		2/0	3/0	9U01AAE656	9U01ABE656
		3/0	4/0	9U01AAE657	9U01ABE657
		4/0	—	9U01AAE658	9U01ABE658
0.955	1.205	6	4	9U01AAE661	9U01ABE661
		4	2	9U01AAE662	9U01ABE662
		2	1	9U01AAE663	9U01ABE663
		1	1/0	9U01AAE664	9U01ABE664
		1/0	2/0	9U01AAE665	9U01ABE665
		2/0	3/0	9U01AAE666	9U01ABE666
0.955	1.205	3/0	4/0	9U01AAE667	9U01ABE667
		4/0	—	9U01AAE668	9U01ABE668

(2) Model Number listed are for elbows with the standard bimetal conductor crimp connector. To specify elbow with Heli-coil crimp connector, change the seventh digit from E to A; for long bimetal connector, change E to D; for all copper connector, change E to S.

SELECTION AND ORDERING*

9U01AAC6	Bushing Insert and Elbow with Capacitance Tap (Heli-coil Connector)
9U01AAH6	Bushing Insert and Elbow with Capacitance Tap (Standard - Bimetal Connector)
9U01AAJ6	Bushing Insert and Elbow with Capacitance Tap (Long - Bimetal Connector)
9U01ABC6	Bushing Insert and Elbow without Capacitance Tap (Heli-coil Connector)
9U01ABH6	Bushing Insert and Elbow without Capacitance Tap (Standard - Bimetal Connector)
9U01ABJ6	Bushing Insert and Elbow without Capacitance Tap (Long - Bimetal Connector)
9U01AAL6	Wishbone Tee and (2) Elbows with Capacitance Tap (Heli-coil Connector)
9U01AAM6	Wishbone Tee and (2) Elbows with Capacitance Tap (Standard - Bimetal Connector)
9U01AAP6	Wishbone Tee and (2) Elbows with Capacitance Tap (Long - Bimetal Connector)
9U01ABL6	Wishbone Tee and (2) Elbows without Capacitance Tap (Heli-coil Connector)
9U01ABM6	Wishbone Tee and (2) Elbows without Capacitance Tap (Standard - Bimetal Connector)
9U01ABP6	Wishbone Tee and (2) Elbows without Capacitance Tap (Long - Bimetal Connector)

*For the last two digits of catalog number refer to Selection Table shown above.

**TECH
DATA**