

200A, 35 kV Class Small Interface Loadbreak Elbow



APPLICATION

The Chardon Loadbreak Elbow is a fully shielded, submersible and insulated termination for connecting underground cable to transformers, switchgear, and other apparatus equipped with loadbreak bushings, junctions, or other loadbreak connectors. The bushing insert and loadbreak elbows are the primary components in all ANSI/IEEE loadbreak connections.

The Chardon 35kV Loadbreak Elbow meets all the requirements of IEEE Standard 386, the interface design meets interface 7B (Fig 9 in IEEE Std 386-2016), and is fully interchangeable with competitor's products and mating products that also meet IEEE Standard 386. Chardon Loadbreak Elbows are molded using high quality peroxide-cured insulating and semi-conducting EPDM rubber. All insulating rubber is compounded in house, using Chardon developed proprietary formulations.

Chardon Loadbreak Elbows include a stainless steel pulling eye. An optional capacitive test point is available. Included with the elbow kit is a bi-metal or copper compression connector, and a tin plated copper probe with an arc quenching tip.

PRODUCTION TESTS

Tests conducted in accordance with IEEE/ANSI Standard 386.

- Minimum Corona Voltage Level 26 kV
- AC 1 Minute Withstand 50 kV
- Test Point Voltage Test

Tests conducted in accordance with Chardon manufacturing process requirements:

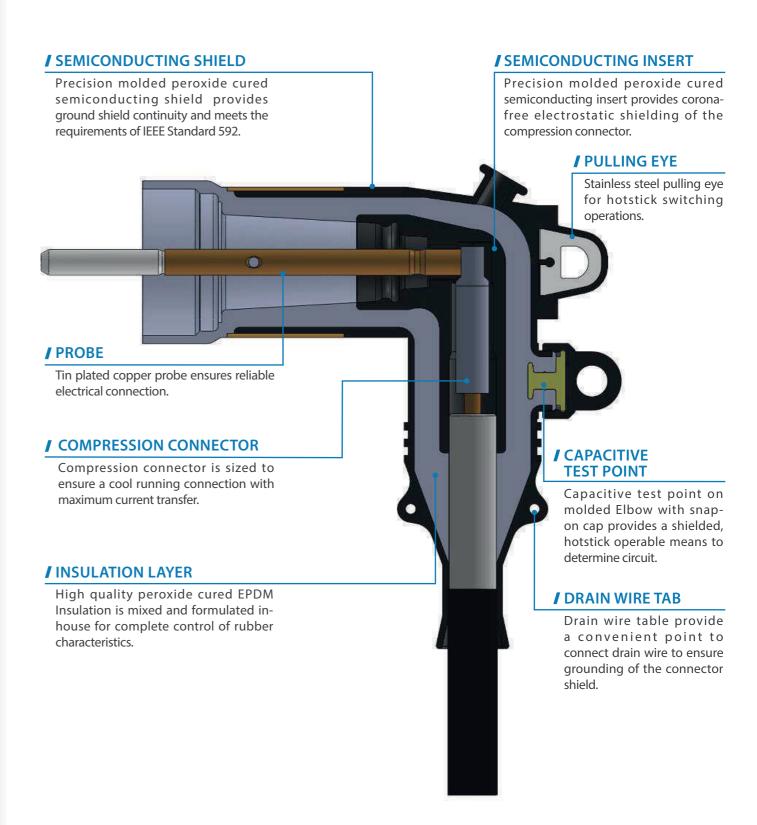
- Physical Inspection
- Periodic Dissection
- Periodic X-ray Analysis

VOLTAGE RATINGS

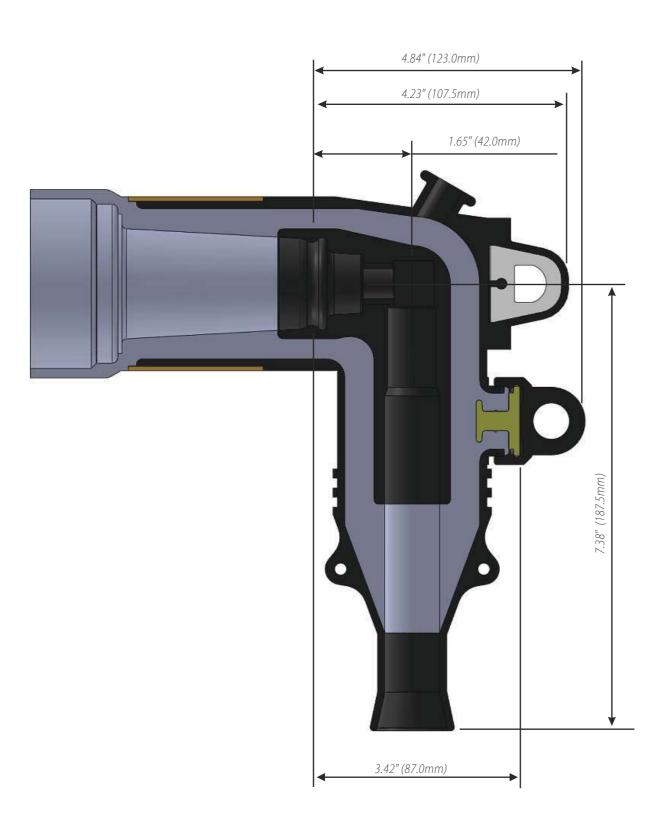
Voltage Class	35 kV
Max. Rating Phase to Phase	36.6 kV
Max. Rating Phase to Ground	21.1 kV
AC 60 Hz 1 Minute Withstand	50 kV
DC 15 Minute Withstand	103 kV
BIL and Full Wave Crest	150 kV
Minimum Corona Voltage Level	26 kV

[•] Revision Date: 07.02.2024

DETAILED COMPOSITION OF THE CHARDON 35 KV SMALL INTRFACE LOADBREAK ELBOW



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ORDERING INFORMATION

Chardon Loadbreak Fuse Elbow kits are packaged in a heavy duty plastic bag. Each elbow kit includes the following:

Silicone Grease

Bi-Metal or Copper Compression Connector

/ Plated Copper Probe

/ Installation Instructions Sheet

Probe Installation Wrench

/ Elbow

To order a Chardon 35 kV Elbow Kit, follow the steps below:

35-LE200	"W"	"X"	"Y"	"Z"
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"W" = Enter T if want a Capacitive Test Point

"X" = Cable Range Code (C,D,E or F)

"Y" = Conductor Code (See table)

"Z" = Enter C if a Plated Copper Connector is Desired (Bi-metal are standard)

35 kV, 200A Loadbreak Cable Ranges (Insulation Diameter)

Cable Range Code	Inches	Millimeters
C	0.846 - 1.051	21.5 - 26.7
D	0.976 - 1.181	24.8 - 30.0
E	1.087 - 1.311	27.6 - 33.3
F	1.232 - 1.469	31.3 - 37.3

Conductor Code Table

CONDUCTOR CODE	Concentric or Compressed		Compact or Solid	
	AWG or kcmil	mm²	AWG or kcmil	mm²
01	#6	-	#4	-
02	#4	-	#3	25
03	#3	25	#2	35
04	#2	35	#1	-
05	#1	-	1/0	50
06	1/0	50	2/0	70
07	2/0	70	3/0	-
08	3/0	-	4/0	95
09	4/0	95	250	120
10	250	120	300	-

Example :

To order a standard Chardon 35 kV Loadbreak Elbow with a cable insulation diameter of 28 mm, a 3/0 bimetal compression connector and a capacitive test point, order the following part number: 35-LE200TD08.





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