

200A, 15 kV Class 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 15kV Loadbreak Elbow meets all the requirements of IEEE Standard 386, the interface design meets interface 5 (Fig. 5 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 arc quenching tip.

PRODUCTION TESTS

Tests conducted in accordance with IEEE/ANSI Standard 386.

Partial Discharge – 11 kV

/ AC 1 Minute Withstand – 34 kV

Test Point Voltage Test

Tests conducted in accordance with Chardon manufacturing process requirements:

/ Physical Inspection

/ Periodic Dissection

Periodic X-ray Analysis

VOLTAGE RATINGS

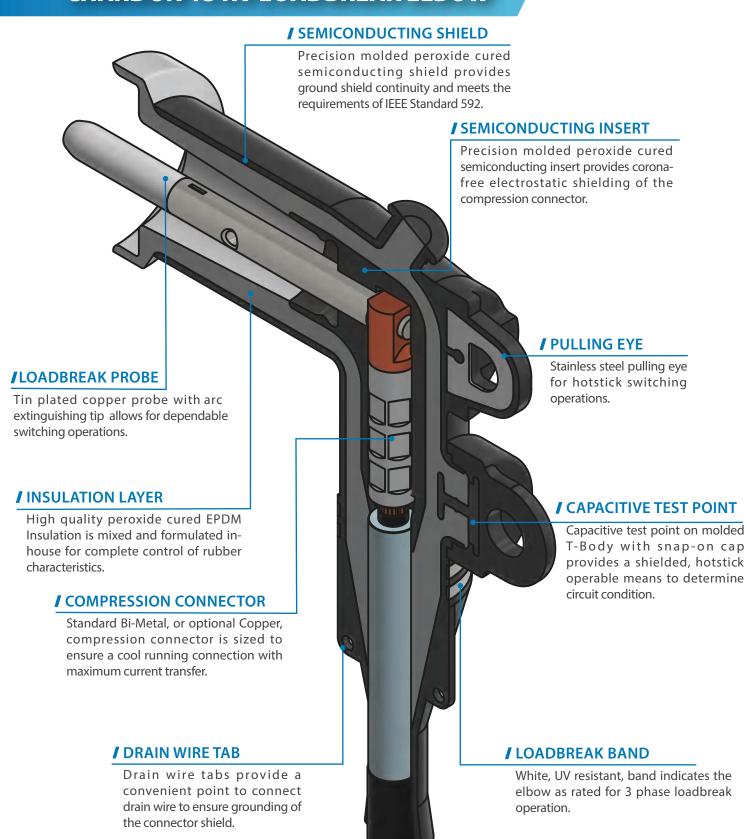
| Voltage Class | 15 kV |
|-----------------------------|---------|
| Max. Rating Phase to Phase | 14.4 kV |
| Max. Rating Phase to Ground | 8.3 kV |
| AC 1 Minute Withstand | 34 kV |
| DC 15 Minute Withstand | 53 kV |
| BIL and Full Wave Crest | 95 kV |
| Partial Discharge | 11 kV |

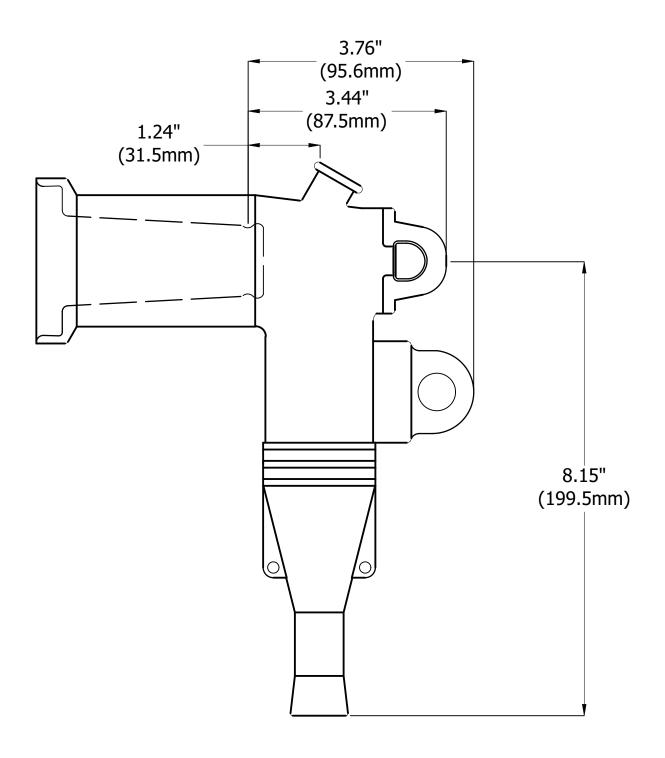
Revision Date: 08.13.2025

CURRENT RATINGS

| Description | Test Parameters |
|-------------|--|
| Continuous | 200 amps rms |
| Switching | 10 operations at 200 amps rms at 14.4 kV |
| Fault Close | 10,000 amps rms symmetrical at 14.4 kV for 0.17 s after 10 consecutive successful switching operations |
| Short Time | • 10,000 amps rms symmetrical for 0.17 s • 3,500 amps rms symmetrical for 3.0 s |

DETAILED COMPOSITION OF THE CHARDON 15 KV LOADBREAK ELBOW





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

Probe Installation Wrench

/ Elbow

To order a Chardon 15 kV Fuse Elbow Kit, follow the steps below:

| 15-LE200 | ''W'' | "X" | ľΥ" | "Z" |
|----------|-------|-----|-----|-----|
|----------|-------|-----|-----|-----|

"W" = Enter T if want a Capacitive Test Point

"X" = Cable Range Code (A, B, C or D)

"Y" = Conductor Code (See table)

"Z" = Enter C if a Plated Copper Connector is needed

Enter B if a Bi-metal Connector is needed

Note:

Bi-metal lug for use on copper and aluminum conductors. Cooper lug for use on cooper conductors only.

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

| Cable Range Code | Inches | Millimeters | | |
|------------------|---------------|---------------|--|--|
| A | 0.575 - 0.740 | 14.61 - 18.80 | | |
| В | 0.640 - 0.905 | 16.26 - 22.99 | | |
| C | 0.830 - 1.060 | 21.08 - 26.92 | | |
| D | 0.930 - 1.220 | 23.62 - 30.99 | | |

Conductor Code Table



| CONDUCTOR CODE | Concentricor Compressed | | CompactorSolid | | Inner Diameter ØA (mm) | |
|-------------------|-------------------------|-----|----------------|-----|------------------------|--------------|
| | AWG or kcmil | mm² | AWG or kcmil | mm² | Copper Lug | Bi-metal Lug |
| 01 | #6 | - | #4 | - | 5.5 | 5.13 |
| 02 | #4 | - | #3 | 25 | 6.0 | 6.55 |
| 03 | #3 | 25 | #2 | 35 | 7.0 | 7.32 |
| 04 | #2 | 35 | #1 | - | 8.5 | 8.13 |
| 05 | #1 | - | 1/0 | 50 | 9.0 | 9.09 |
| 06 | 1/0 | 50 | 2/0 | 70 | 9.6 | 10.20 |
| 07 | 2/0 | 70 | 3/0 | - | 12.0 | 11.35 |
| 08 | 3/0 | - | 4/0 | 95 | 13.3 | 13.33 |
| 09 | 4/0 | 95 | 250 | 120 | 14.0 | 14.00 |
| 10 | 250 | 120 | 300 | - | 15.0 | 15.21 |

Example:

To order a standard Chardon 15 kV Loadbreak Elbow with a cable insulation diameter of 0.850", a 3/0 bi-metal compression connector, and a capacitive test point, order the following part number: 15-LE200TB08B.

