

# **250A, 24kV Class Interface A1 Equipment Bushing**



# APPLICATION

The Chardon Deadbreak Elbow Connector is a fully shielded and insulated termination for connecting underground cable to transformers, switch gear and other apparatus equipped with deadbreak bushings, junctions, or other deadbreak connectors.

The Chardon Deadbreak Elbow meets all the requirements of HD629.1 , EN-50180 , EN-50181 & IEC 60502, and is fully interchangeable with competitor's products and mating

products that meet EN-50180 & EN-50181.

Chardon Deadbreak Elbow Connectors 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 Deadbreak Elbow Connectors a copper probe. Combined with the bi-metal compression lug, this ensures a reliable operating connection.

# PRODUCTION TESTS

Tests conducted in accordance with HD 629.1.

- / Partial Discharge – 22 kV < 3 pC
- / AC 1 Minute Withstand – 60 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 (U <sub>m</sub> )	24 kV
AC 5 Minute Withstand	57 kV
Partial Discharge	22 kV < 3pC
BIL and Full Wave Crest (Impulse)	125 kV

# CURRENT RATINGS

Continuous Current	250 A
Overload Current (8 hour maximum)	300 A

# DETAILED COMPOSITION OF THE CHARDON DEADBREAK CONNECTOR

## / SEMICONDUCTING SHIELD

Precision molded peroxide cured semiconducting shield provides ground shield continuity and meets the requirements of IEEE Standard 592.

## / CABLE ENTRANCE

The sized cable entrance provides an interference fit to maintain a watertight seal.

## / DRAIN WIRE TAB

Drain wire table provide a convenient point to connect drain wire to ensure grounding of the connector shield.

## / INSULATION LAYER

High quality peroxide cured EPDM insulation is mixed and formulated in-house for complete control of rubber characteristics.

## / COMPRESSION CONNECTOR

Compression connector is sized to ensure a cool running connection with maximum current transfer.

## / CAPACITIVE TEST POINT

Capacitive test point on molded Elbow with snap-on cap provides a shielded, hotstick operable means to determine circuit condition.

## / PULLING EYE

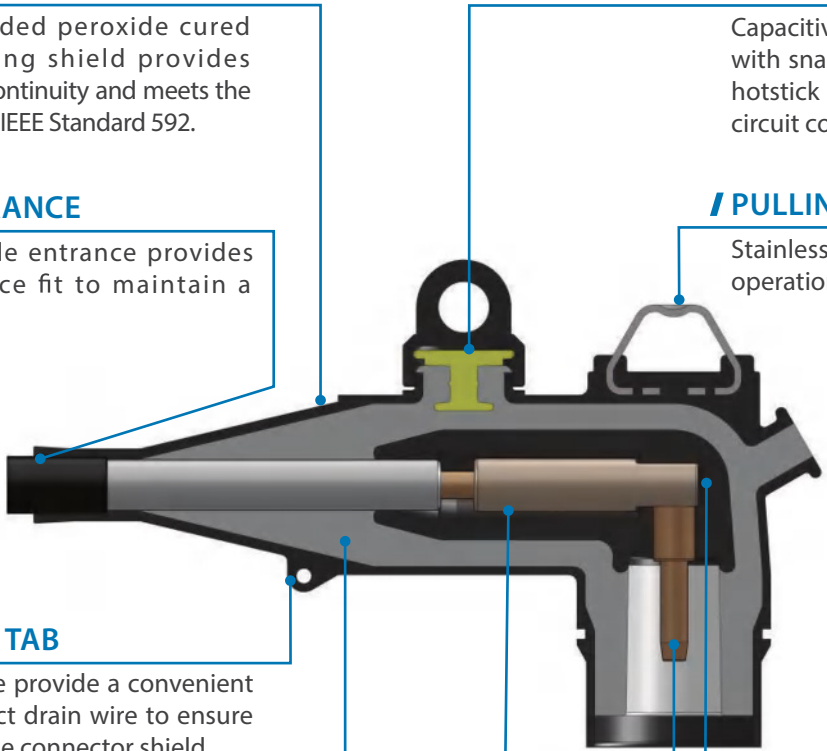
Stainless steel pulling eye for hotstick operations.

## / SEMICONDUCTING INSERT

Precision molded peroxide cured semiconducting insert provides corona-free electrostatic shielding of the compression connector.

## / PROBE

Tin plated copper probe ensures reliable electrical connection.



ORDERING INFORMATION

/ BUSHING INTERFACE

/ FIXING STUDS

/ EN 50180-3  
CLAMPING PAW E

/ SEALING GASKET

/ EQUIPMENT  
CONNECTION

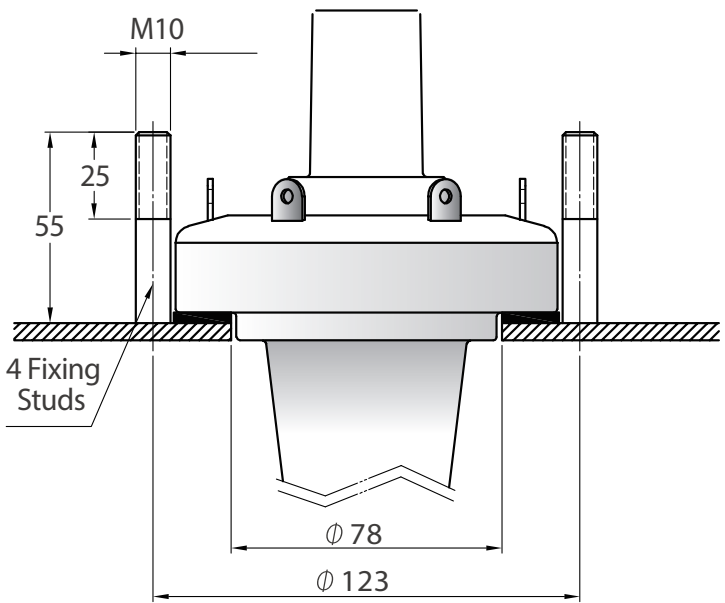
Fixings For Interface A1 Equipment Bushings EN 50180-3 & DIN 42 538

ORDERING INFORMATION

/ TABS FOR  
BAIL RESTRAINT

/ EN 50180-3 & DIN 42 538  
FLANGE RING A

/ EARTH JUMPER



Note:

To order components with the bushing, please follow the chart below:

Earth Lead	Chardon Part Number + EL
Earth Plate	Chardon Part Number + EP
Flange kit (Optional)	Chardon Part Number + EL + FL or EP + FL

Ordering Example:

To order a Chardon Interface A1 Equipment bushing A=284mm, with earth plate and the flange, order the P/N: 24-DIB250-1-EP-FL

To order a Chardon Interface A1 Equipment bushing A=222mm, with earth lead only, P/N will be: 25-DIB-250-2-I-EL



**CHARDON** TAIWAN CORPORATION

No.37 Min-Chie Road, Tung Lo  
Industrial Park, Miao Li, Taiwan 366

Tel : +886-37-984385

Fax : +886-37-984770

[www.chardongroup.com](http://www.chardongroup.com) • [info@chardongroup.com](mailto:info@chardongroup.com)