

# **Chardon IEC 42kV 1250A Bushing Extender**



APPLICATION

The Chardon 42kV 1250A Bushing Extender can be used for temporary or permanent applications and provides a submersible, fully shielded insulated connection between energized bushings and Chardon 42kV rear Tbody product (42-RDT1250).

When installed between an IEC bushing and Chardon 42kV Front T, it is properly grounded

using the attached drain wire, and providing physically seal and electrically insulate bushing interfaces.

The Chardon Bushing Extender design incorporates peroxide cured, EPDM insulation rubber, and a semi-conducting insert and outer shield.

KEY FEATURES

- Provides a fully shielded and submersible connection.
- No minimum phase clearance requirements.
- EN-50181 Type "C" 630A interface and Chardon 42kV Front T mating interface.
- 100% electrical tested at factory.

PRODUCTION TESTS

Tests conducted in accordance with IEC60502-4, HD629.1, GB/T12706.4.

- Minimum Corona Voltage Level – 45 kV < 10 pC
- AC 5 Minute Withstand – 117 kV
- Impulse sampling test – 200 kV

Tests conducted in accordance with Chardon manufacturing process requirements:

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

VOLTAGE RATINGS

Max. Rating Phase to Ground	42 kV
AC 60Hz 5 Minute Withstand	117 kV
Minimum Corona Voltage Level	45 kV < 10 pC
BIL and Full Wave Crest	200 kV

• 42BE1250-061418-REV01

DETAILED COMPOSITION OF THE CHARDON 42KV 1250A BUSHING EXTENDER

SEMICONDUCTING SHIELD

Precision molded peroxide cured semiconducting shield provides ground shield continuity.

CHARDON DESIGN INTERFACE

Chardon design interface to be assembled with Chardon rear T-body.

SEMICONDUCTING INSERT

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

INSULATION LAYER

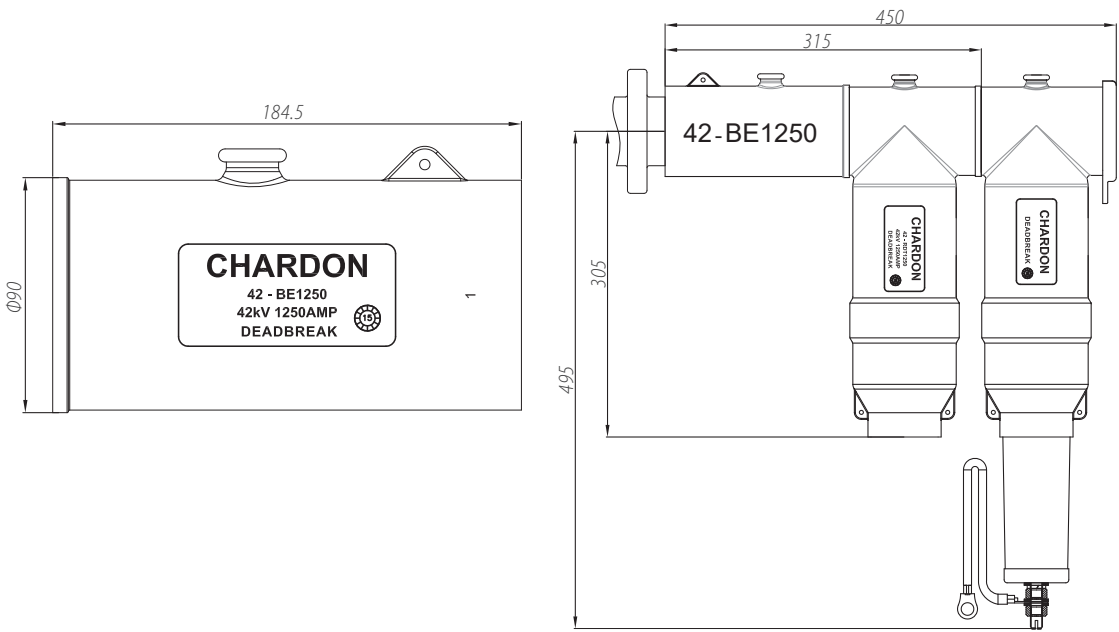
High quality peroxide cured EPDM insulation is mixed and formulated in-house for complete control of rubber characteristics.

INTERFACE C

Interface C design meets EN-5018 Type "C" 630A interface.

DRAIN WIRE TAB

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



ORDERING INFORMATION

42KV Bushing Extender Part Number

42-BE1250





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