

# IEC Separable Connectors

24 kV 630A

Large Front T-Body / Coupling (Rear) T-Body Connector



## Application

Chardon Front T-Body / Coupling (Rear) T-Body connectors are fully screened and fully submersible when mated with proper bushings or plugs. The products are used to terminate polymeric cable to dead front apparatus such as transformers, switchgear and other equipment. They can be used for 24kV applications. The Chardon T-body connectors are suitable for indoor or outdoor applications, and are able to be used for all polymeric cable types (XLPE, ETP, etc.) with copper or aluminum conductors. The design is especially suited for the harsh off-shore or wind farm environment, where long runs and large cable sizes are needed.

## Key Features

- Provides a fully shielded and submersible connection when mated with the proper bushing or plug.
- Type "C" 630A interface.
- Mounting can be vertical, horizontal, or any angle in between.
- No minimum phase clearance requirements.
- 100% electrical tested in production.

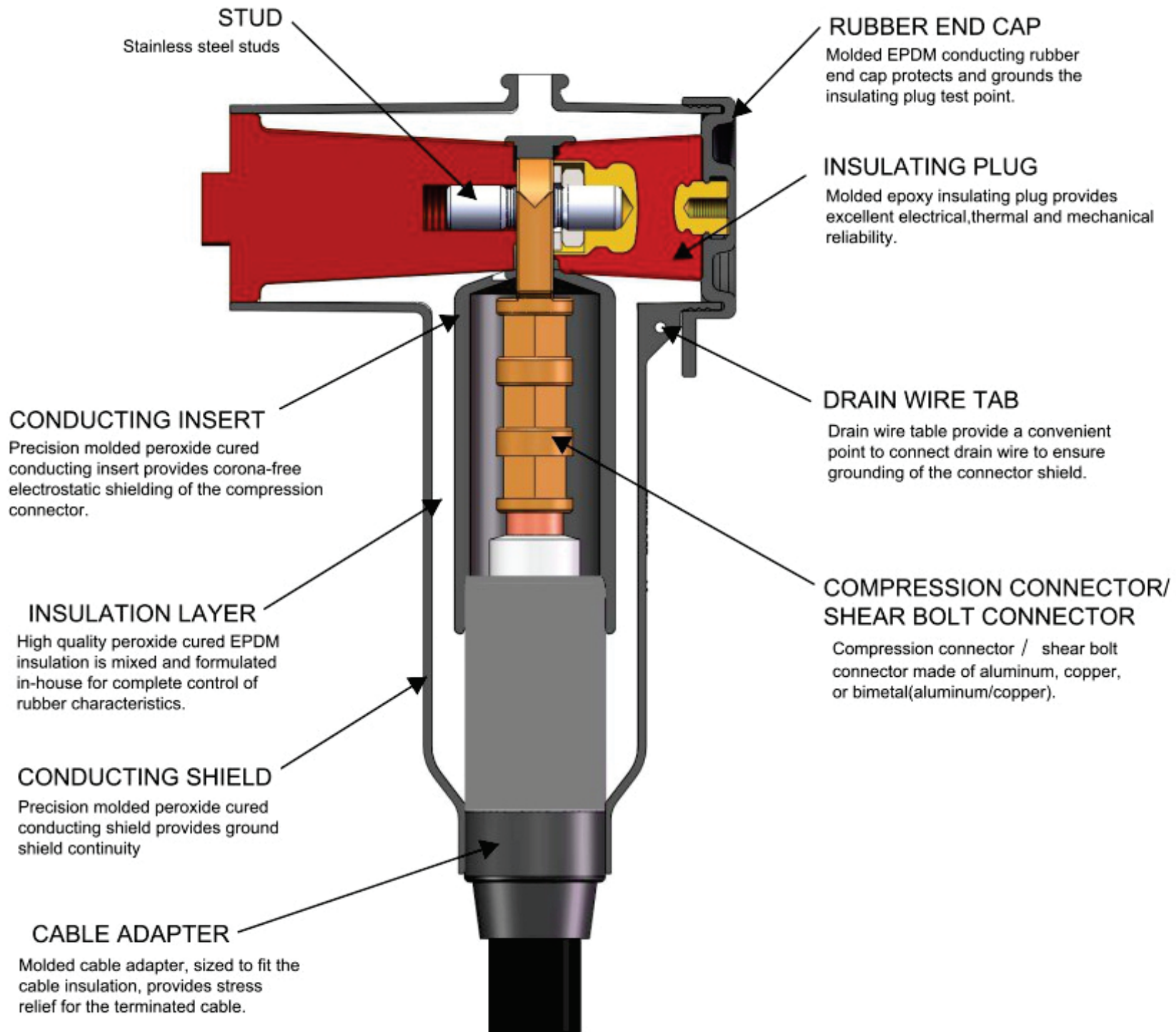
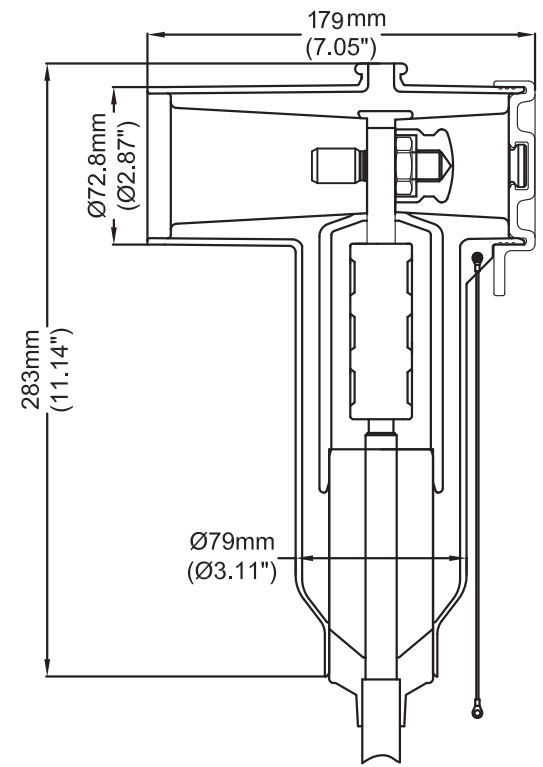
## Product Ratings

Maximum Voltage Class ( $U_m$ ):	24 kV
AC 5 Minute Withstand:	54 kV
DC 15 Minute Voltage Withstand:	48 kV
Minimum Corona Voltage Level:	20 kV < 10 pC
BIL and Full Wave Crest (Impulse):	125 kV
Thermal Short Circuit (Conductor, 2 sec.)	23 kA
Dynamic Short Circuit	82 kA
Continuous Current	630 A

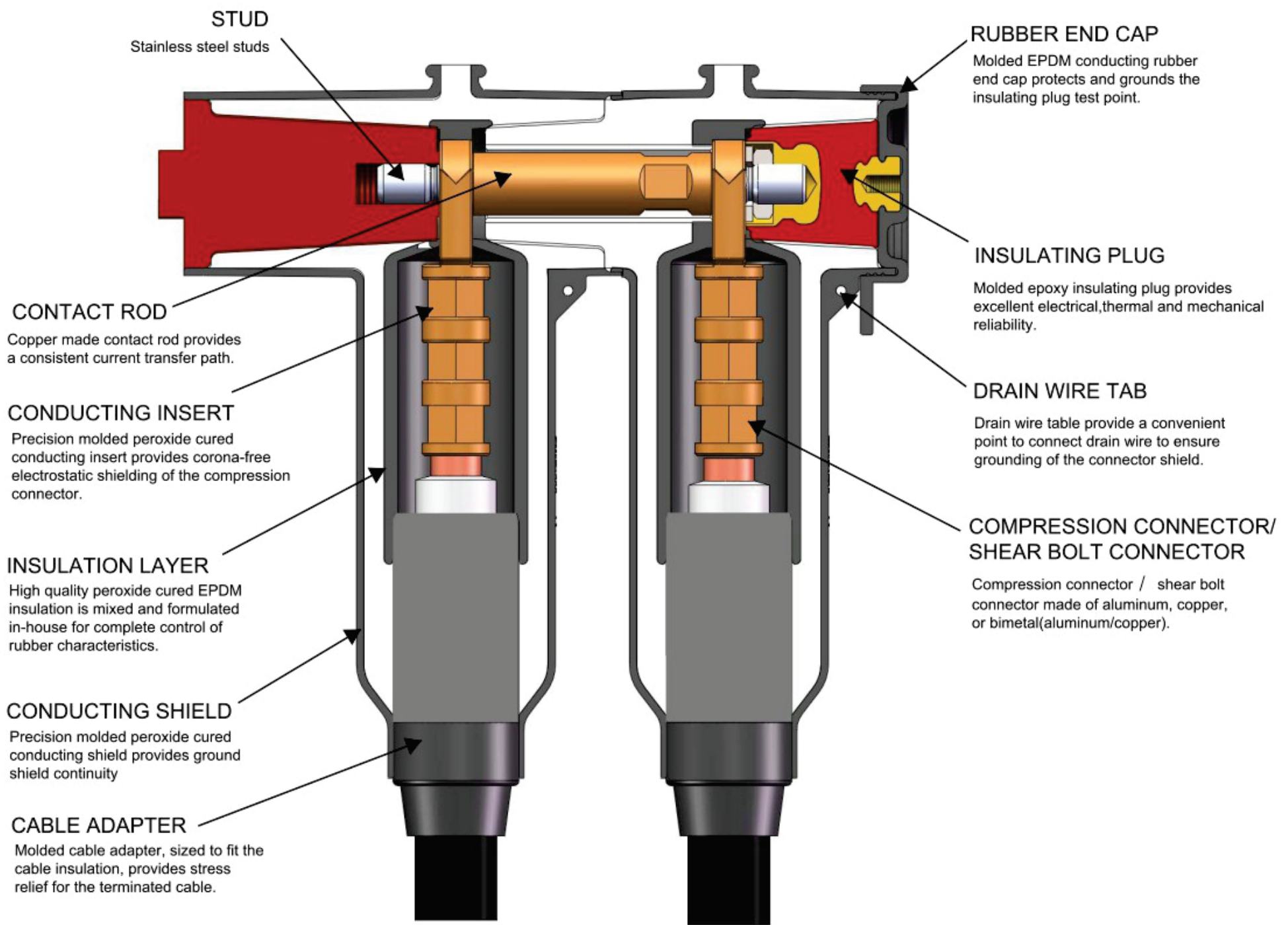
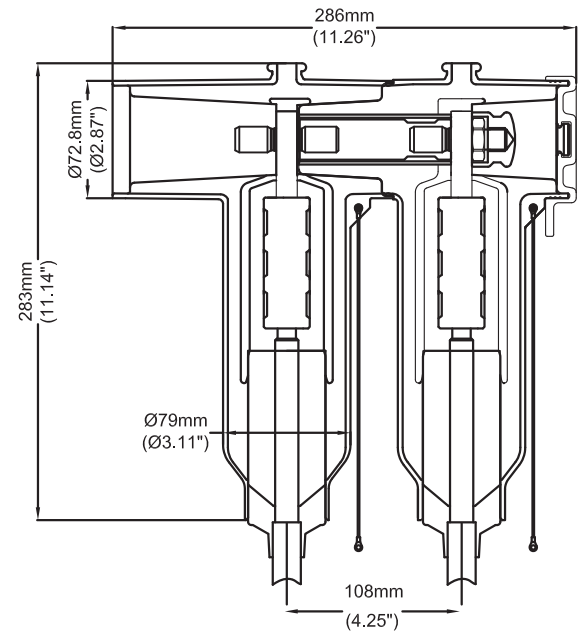
## Production Tests

- Tests conducted in accordance with IEC 60502-4
- Minimum Corona Voltage Level – 20 kV  $\leq$  3pC
  - AC 5 Minute Withstand – 54 kV

# Detailed composition of Chardon 24 kV Large Front T-body Connector



# Detailed composition of the Chardon Chardon 24 kV Large Coupling (Rear) T-body Connector



# ORDERING INFORMATION

24 - — — — 630

STEP 1

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STEP 2

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STEP 3

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STEP 4

## STEP 1

### Selection of Front / Rear T-body

Code	
LFDT	Large Front T-body
LRDT	Large Coupling(Rear)T

## STEP 2

### Selection of Cable Insulation Dimension

Code	mm (inch)
LG	28.0-32.0(1.102-1.260)
LH	31.0-34.0(1.220-1.339)
LI	33.0-37.0(1.299-1.457)
LJ	36.0-39.0(1.417-1.535)
LK	38.0-42.0(1.496-1.654)

## STEP 3

### Selection of Conductor Size

Conductor Code	Conductor Size(mm <sup>2</sup> )
300	300
400	400
500	500

## STEP 4

### Selection of Compression Connector Material

Code	
B	Bi-metal ( Al & Cu )
C	Copper

### Chardon Shear Bolt Connector

#### Example:

For a Shear Bolt Connector with a conductor range 300-400 mm<sup>2</sup> the part number would be : SBC-B-300-400/3



CATALOG NO.	Conductor Range(mm <sup>2</sup> ).
SBC-B-300-400/3	300-400

### ORDERING EXAMPLE:

For a CHARDON 24 kV Large Front T-body with cable insulation outer dimension of 32.8 mm and a conductor size of 300 mm<sup>2</sup> with copper compression connector, the part number would be as follows.

24 - LFDT 630 LH 300 C

If a shear bolt connector is selected in this kit, the part number would be 24-LFDT630LH-SBC-B-300-400/3

24 - LFDT 630 LH SBC-B-300-400/3



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