

# **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 at factory.

## PRODUCT RATINGS

Maximum Voltage Class (U <sub>m</sub> )	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

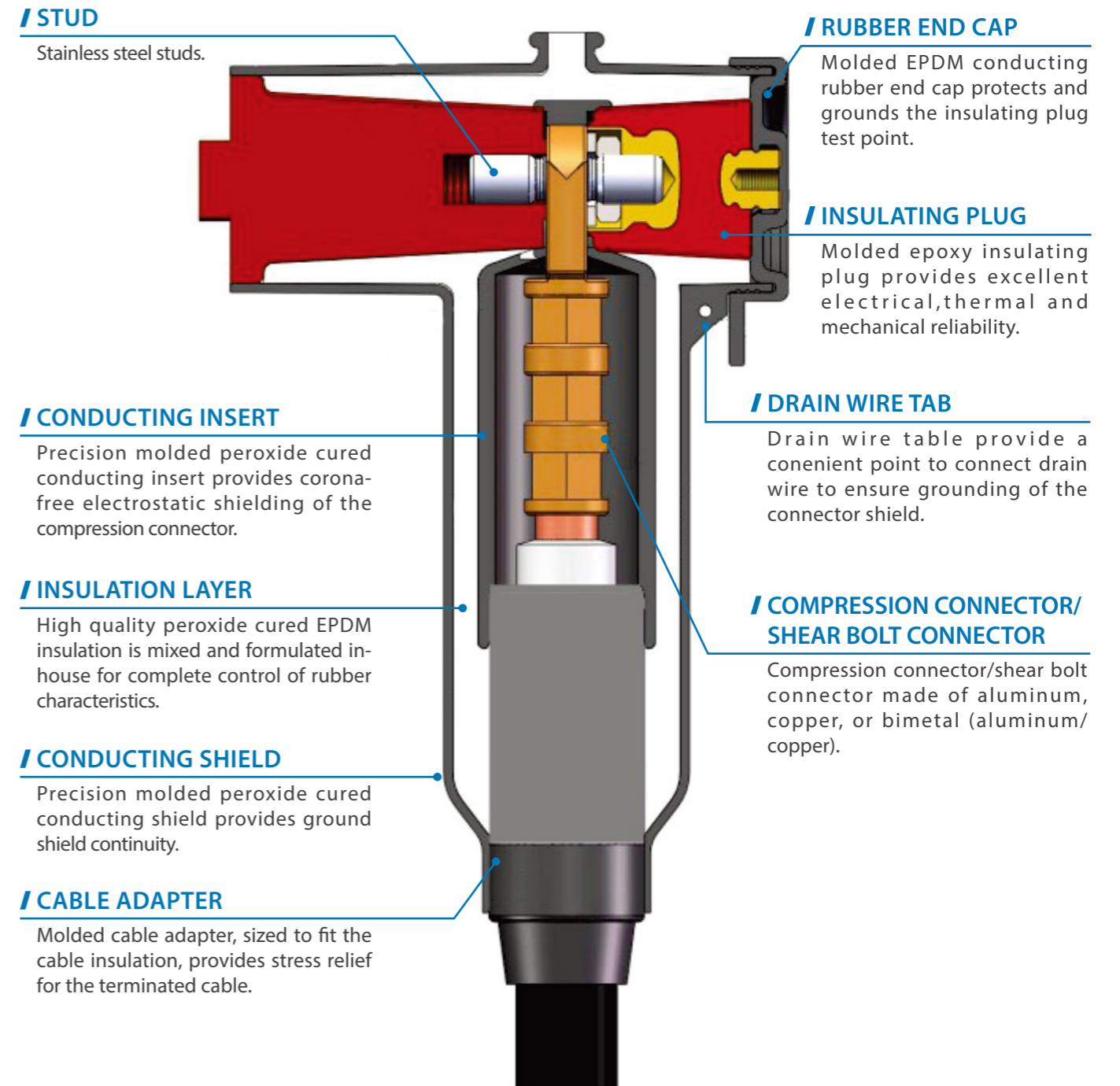
## PRODUCTION TESTS

Tests conducted in accordance with IEC 60502-4.

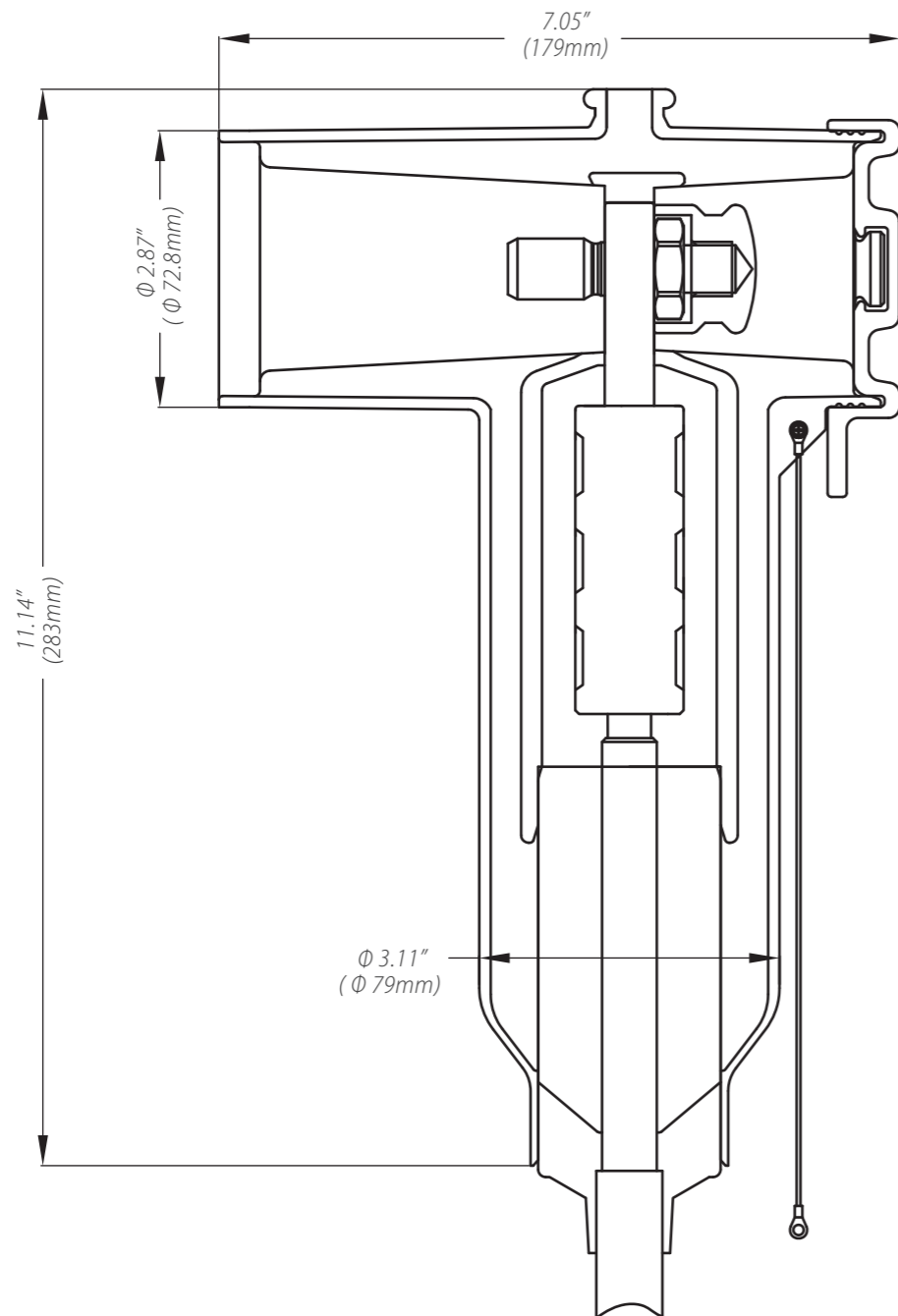
- ▮ Minimum Corona Voltage Level – 20 kV ≤ 3pC
- ▮ AC 5 Minute Withstand – 54 kV

• 24LFDT630-24LRDT630-121718-REV01

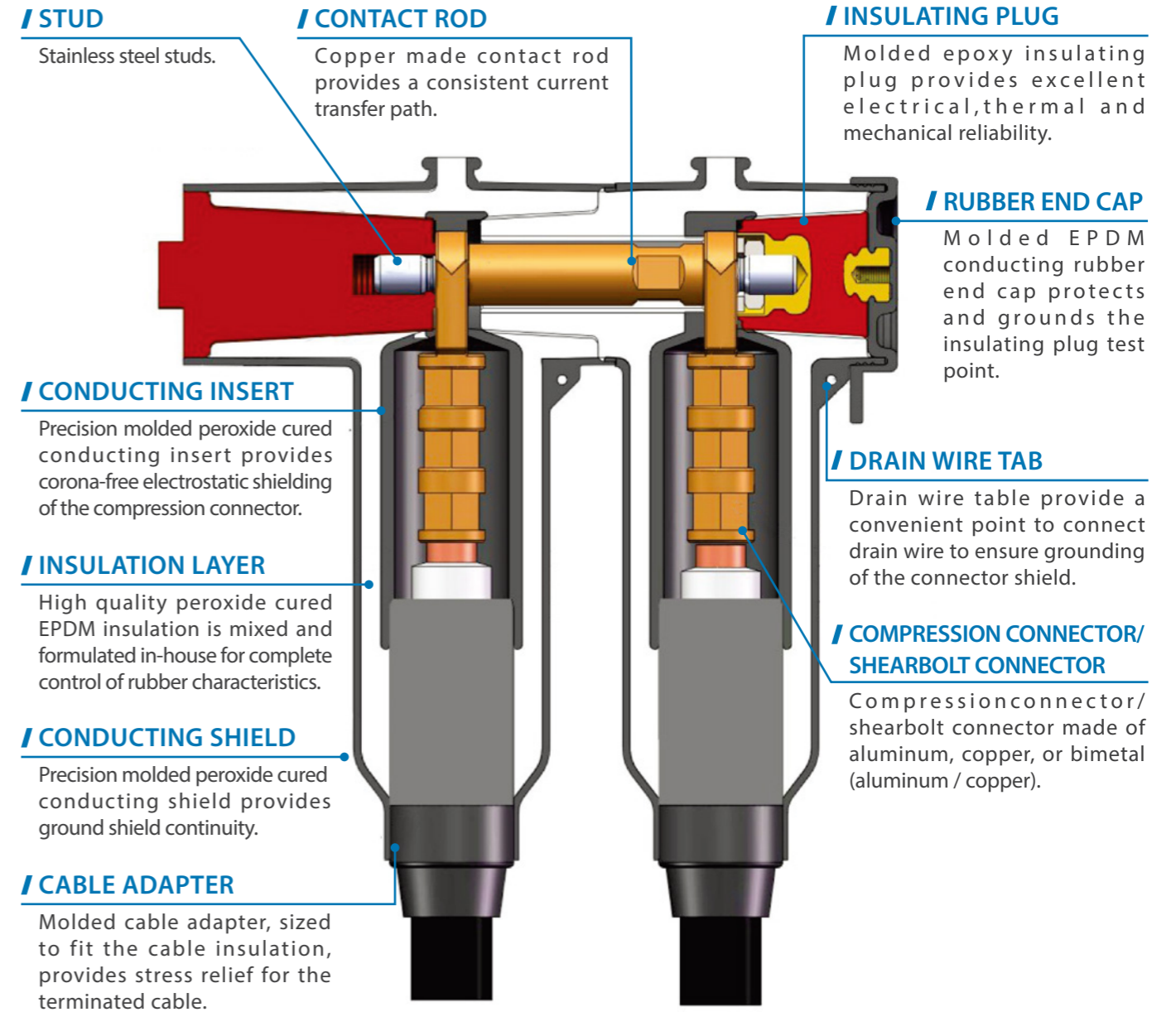
## DETAILED COMPOSITION OF THE CHARDON 24 KV LARGE FRONT T-BODY CONNECTOR



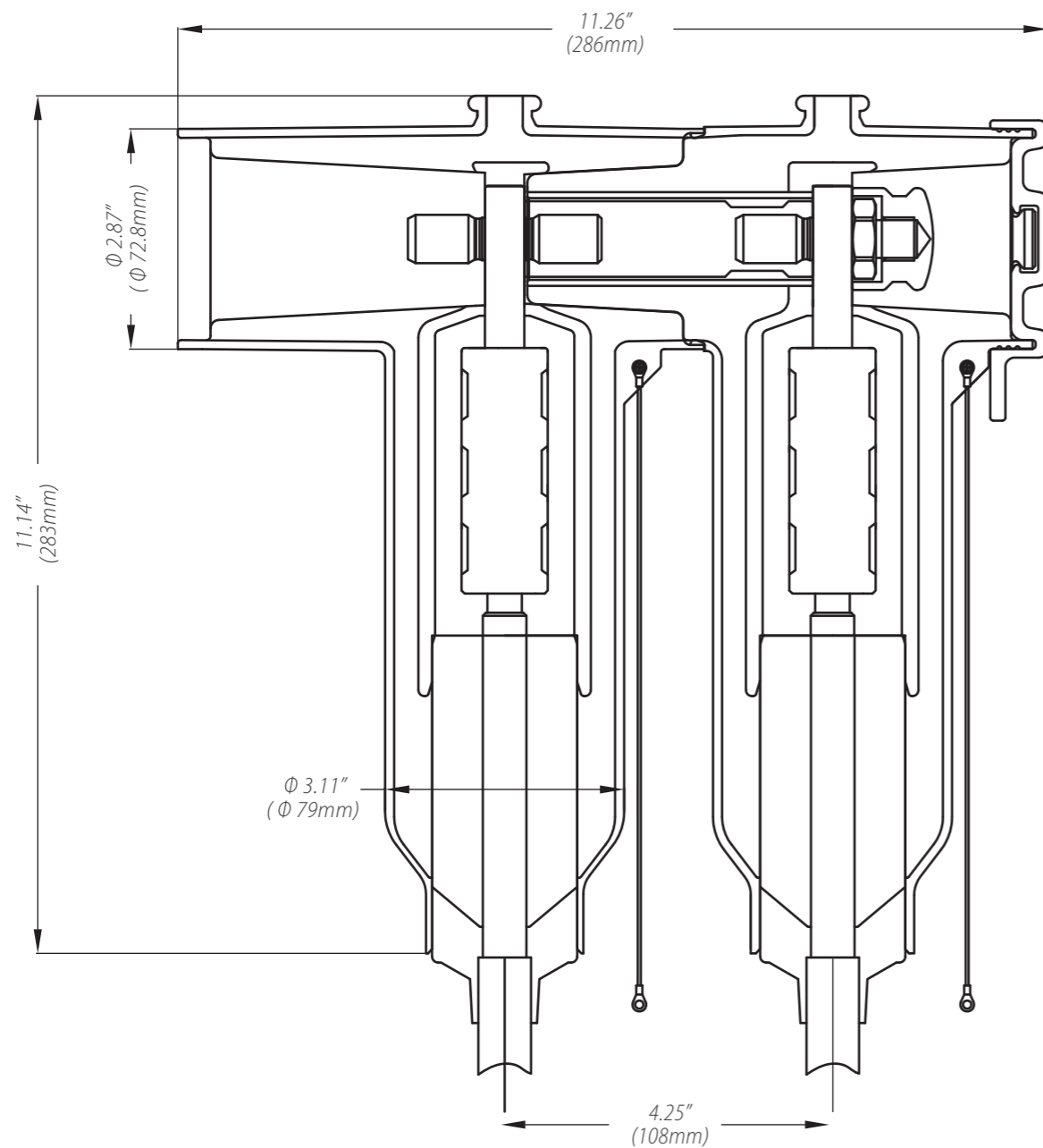
**DETAILED COMPOSITION OF THE CHARDON  
24 KV LARGE FRONT T-BODY CONNECTOR**



**DETAILED COMPOSITION OF THE CHARDON  
24 KV LARGE COUPLING (REAR) T-BODY CONNECTOR**



**DETAILED COMPOSITION OF THE CHARDON  
24 KV LARGE COUPLING (REAR) T-BODY CONNECTOR**



**ORDERING INFORMATION**

24-	---	630-	-	---	-
	<b>STEP1</b>		<b>STEP2</b>	<b>STEP3</b>	<b>STEP4</b>

**STEP1** ---

**Selection of Front / Rear T-body**

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

**STEP2** -

**Selection of Cable Insulation Dimension**

Code	mm
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)

**STEP3** ---

**Selection of Conductor Size**

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

**STEP4** -

**Selection of Compression Connector Material**

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

**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 300mm<sup>2</sup> with copper compression connector, the part number would be as follows.

24-	<b>LFDT</b>	<b>630</b>	<b>LH</b>	<b>300</b>	<b>C</b>
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If a shear bolt connector is selected in this kit, the part number would be 24-LFDT630LH-SBC-B-300-400/3.

24-	<b>LFDT</b>	<b>630</b>	<b>LH</b>	<b>SBC-B-300-400/3</b>
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**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> )
<b>SBC-B-300-400/3</b>	300 - 400





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