

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.

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

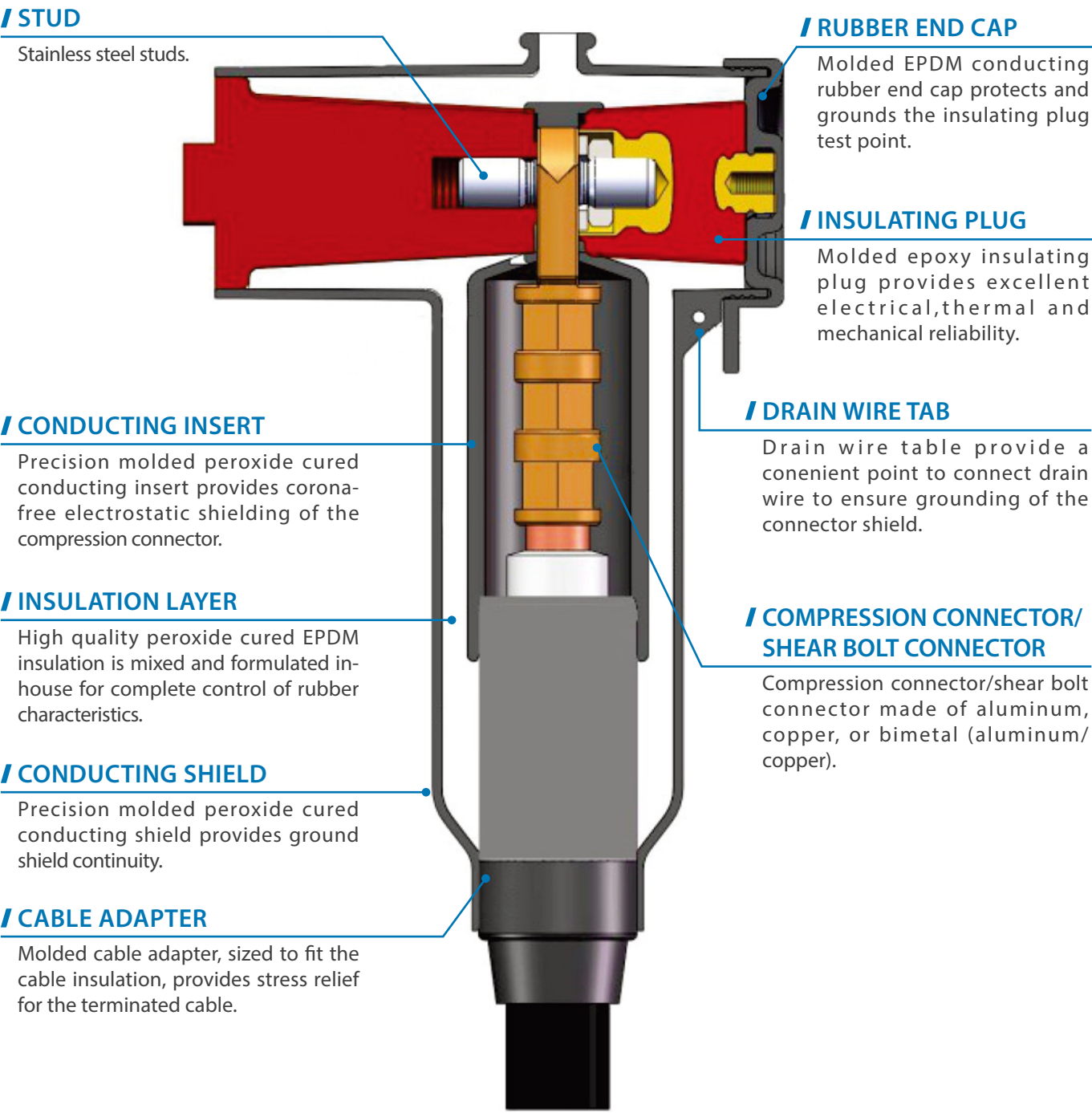
Rated Voltage Class (U _m)	24 kV
AC 5 Minute Withstand	54 kV
DC 15 Minute Voltage Withstand	48 kV
Partial Discharge	20 kV < 10 pC
BIL and Full Wave Crest (Impulse)	125 kV
Thermal Short Circuit (Conductor, 2 sec.)	23 kA
Dynamic Short Circuit	82 kA
Continuous Current	630 A

PRODUCTION TESTS

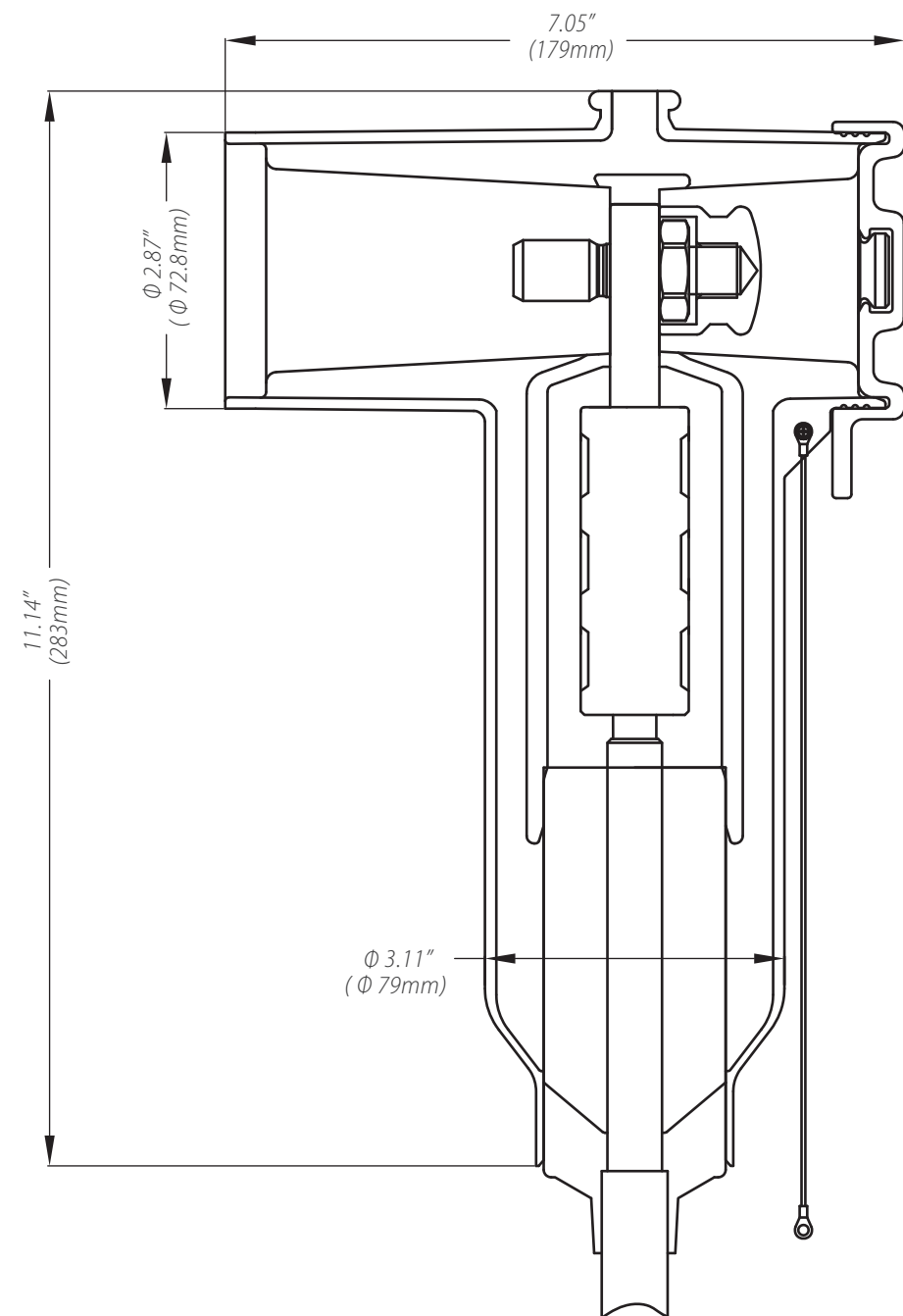
Tests conducted in accordance with IEC 60502-4.

- Partial Discharge – 20 kV ≤ 3pC
- AC 5 Minute Withstand – 54 kV

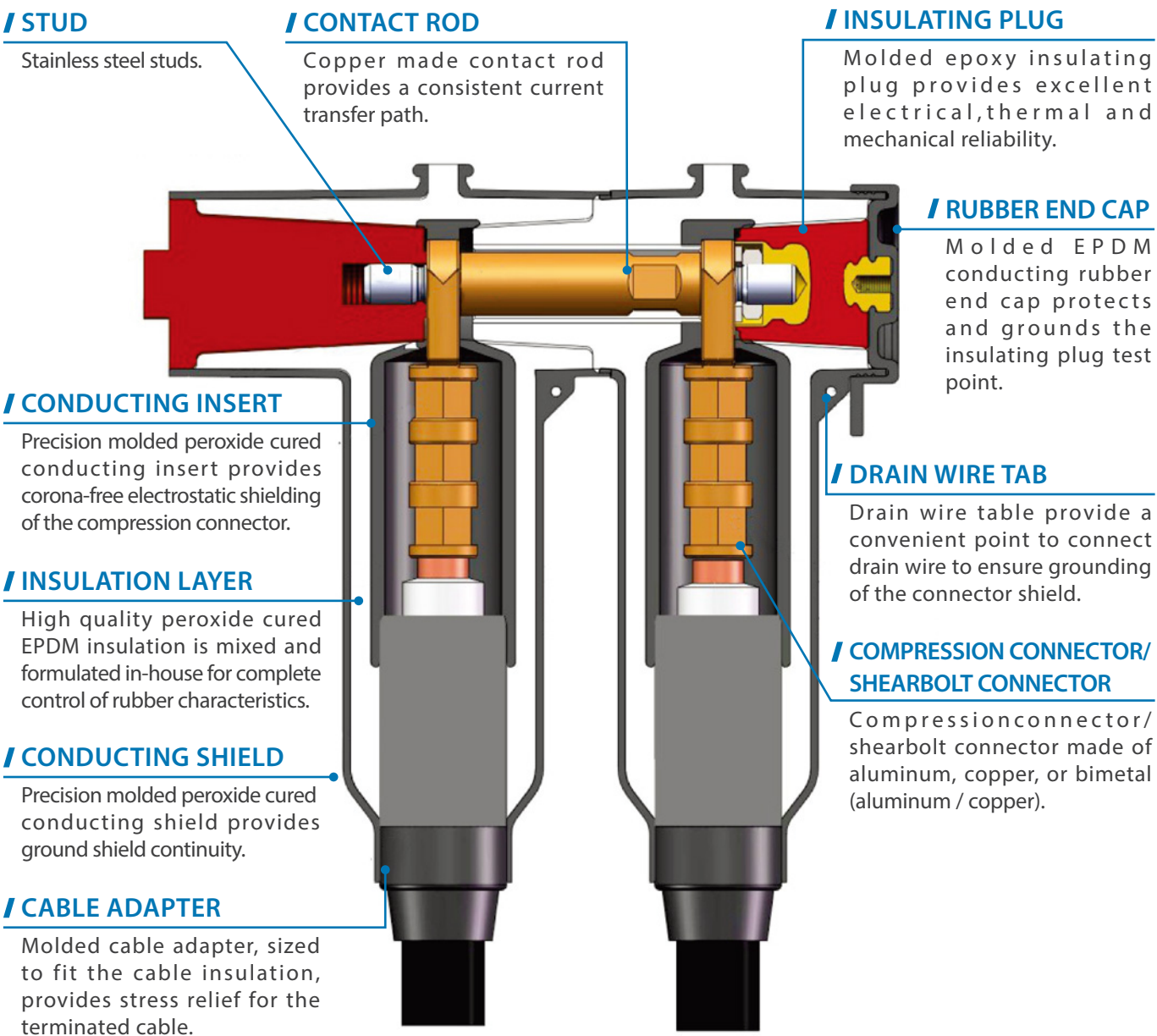
DETAILED COMPOSITION OF THE CHARDON 24 KV LARGE FRONT T-BODY CONNECTOR



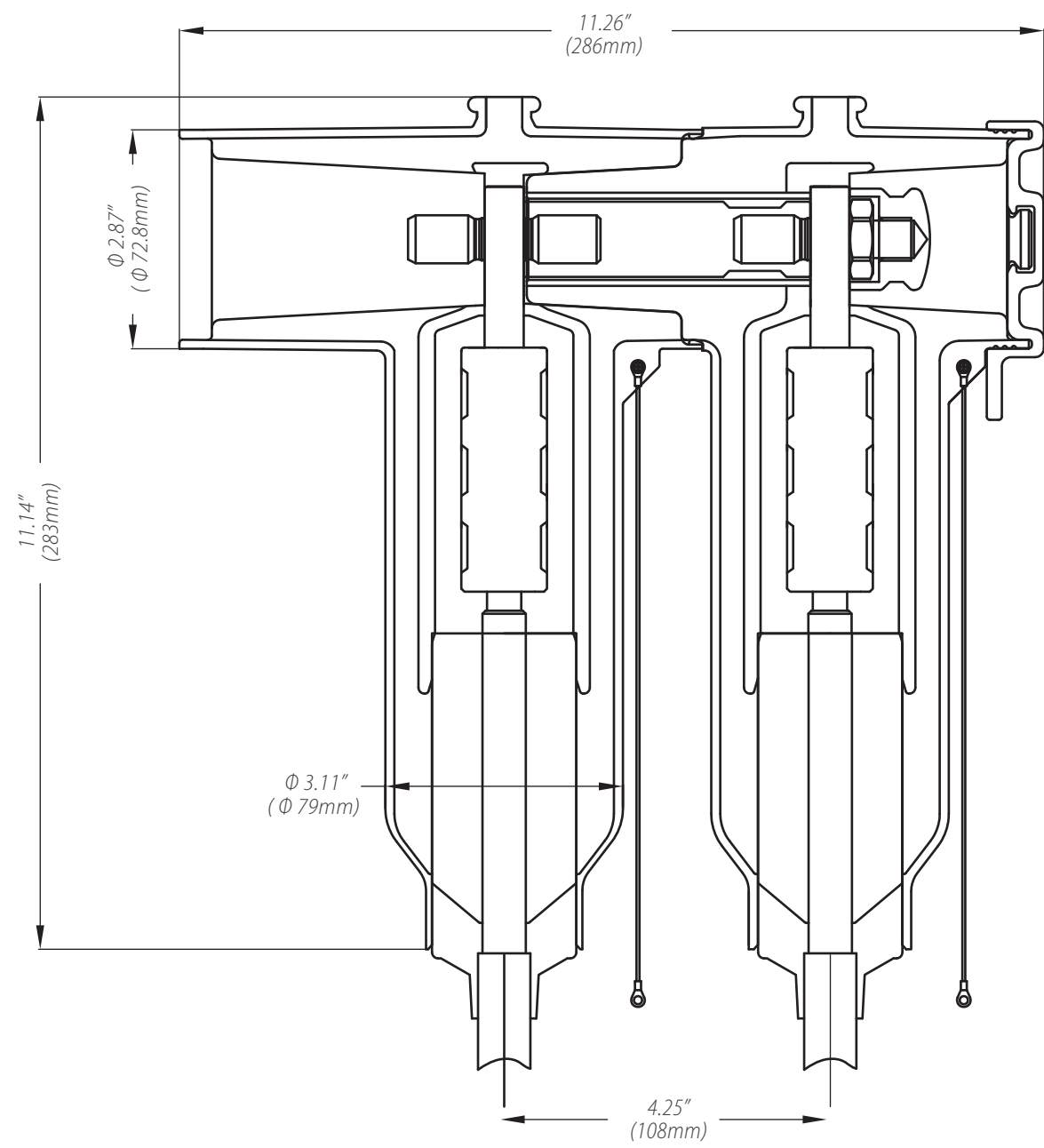
DETAILED COMPOSITION OF THE CHARDON
24 KV LARGE FRONT T-BODY CONNECTOR



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-	-	---	-
	STEP1		STEP2	STEP3	STEP4

STEP1	---
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Selection of Front / Rear T-body

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

STEP2	-
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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	---
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Selection of Conductor Size

Conductor Code	Conductor Size (mm ²)
300	300
400	400
500	500

STEP4	-
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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 300mm² with copper compression connector, the part number would be as follows.

24-	LFDT	630	LH	300	C
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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-	LFDT	630	LH	SBC-B-300-400/3
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Chardon Shear Bolt Connector

Example:

For a Shear Bolt Connector with a conductor range 300-400 mm² , the part number would be : SBC-B-300-400/3.

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





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