

24-LFDT630 / 24-LRDT630

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

Type "C" 630A interface.

PRODUCT RATINGS

- Provides a fully shielded and submersible connection when mated with the proper bushing or plug.
- Mounting can be vertical, horizontal, or any angle in between.
- **I** No minimum phase clearance requirements.
- 100% electrical tested at factory.

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 \leq 3pC
AC 5 Minute Withstand – 54 kV

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

/ STUD

Stainless steel studs.

I CONDUCTING INSERT

Precision molded peroxide cured conducting insert provides coronafree electrostatic shielding of the compression connector.

IINSULATION LAYER

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

I CONDUCTING SHIELD

Precision molded peroxide cured conducting shield provides ground shield continuity.

I CABLE ADAPTER

Molded cable adapter, sized to fit the cable insulation, provides stress relief for the terminated cable.

I RUBBER END CAP

Molded EPDM conducting rubber end cap protects and grounds the insulating plug test point.

INSULATING PLUG

Molded epoxy insulating plug provides excellent electrical, thermal and mechanical reliability.

I DRAIN WIRE TAB

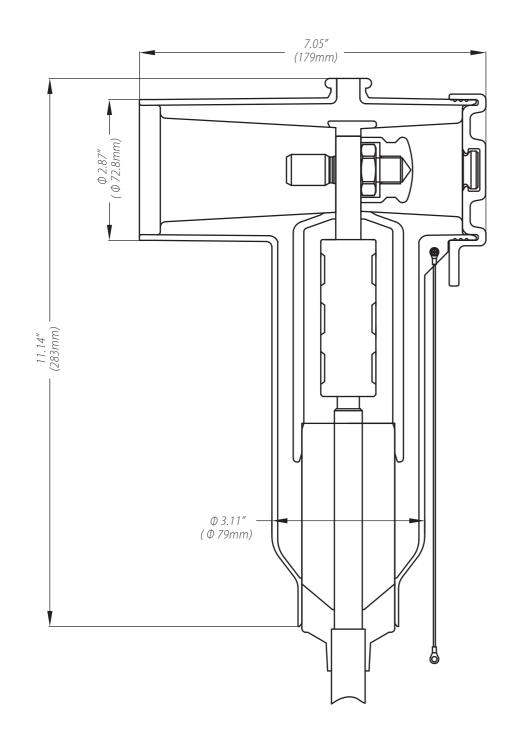
Drain wire table provide a conenient point to connect drain wire to ensure grounding of the connector shield.

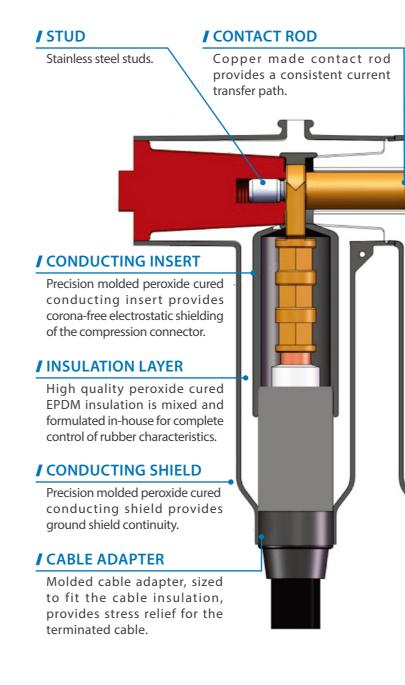
/ COMPRESSION CONNECTOR/ SHEAR BOLT CONNECTOR

Compression connector/shear bolt connector made of aluminum, copper, or bimetal (aluminum/ copper).

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





I INSULATING PLUG

Molded epoxy insulating plug provides excellent electrical,thermal and mechanical reliability.

I RUBBER END CAP

Molded EPDM conducting rubber end cap protects and grounds the insulating plug test point.

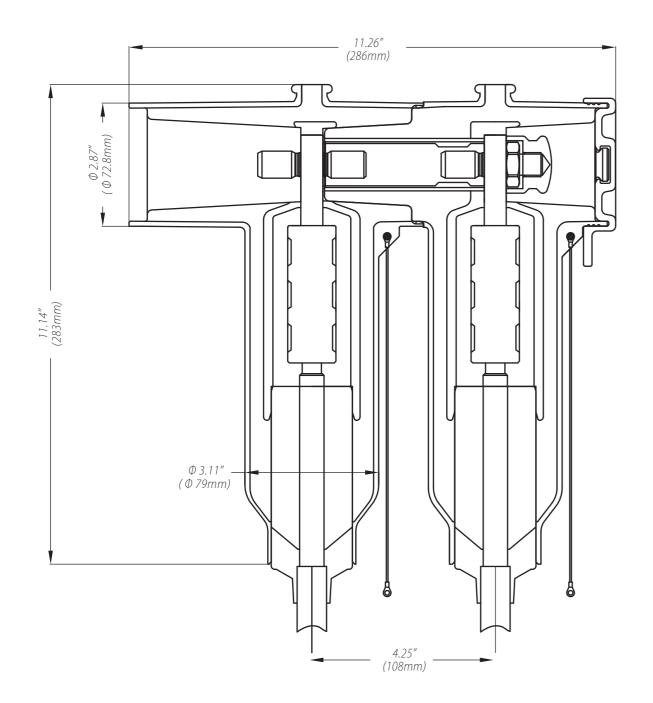
I DRAIN WIRE TAB

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

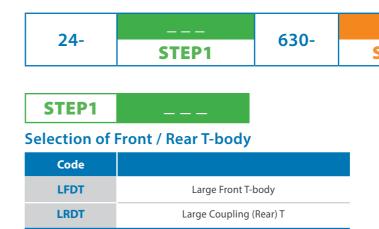
COMPRESSION CONNECTOR/ SHEARBOLT CONNECTOR

Compressionconnector/ shearbolt connector made of aluminum, copper, or bimetal (aluminum / copper).

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



ORDERING INFORMATION



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)	
u	33.0 - 37.0 (1.299 - 1.457)	
IJ	36.0 - 39.0 (1.417 - 1.535)	
LK	38.0 - 42.0 (1.496 - 1.654)	

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	С
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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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STEP2	STEP3	STEP4

STEP3		
Selection of Conductor Size		

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

STEP4		
Selection of C	ompression Connec	ctor Material

Code	
В	Bi-metal (Al & Cu)
С	Copper





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