

IEC Separable Connectors 72 kV, 1250 A (Interface F)

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 72 kV 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, EPR, 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 "F" 1250A interface.
- Mounting can be vertical, horizontal, or any angle in between.
- No minimum phase clearance requirements.
- 100% electrical tested at factory.

PRODUCT RATINGS

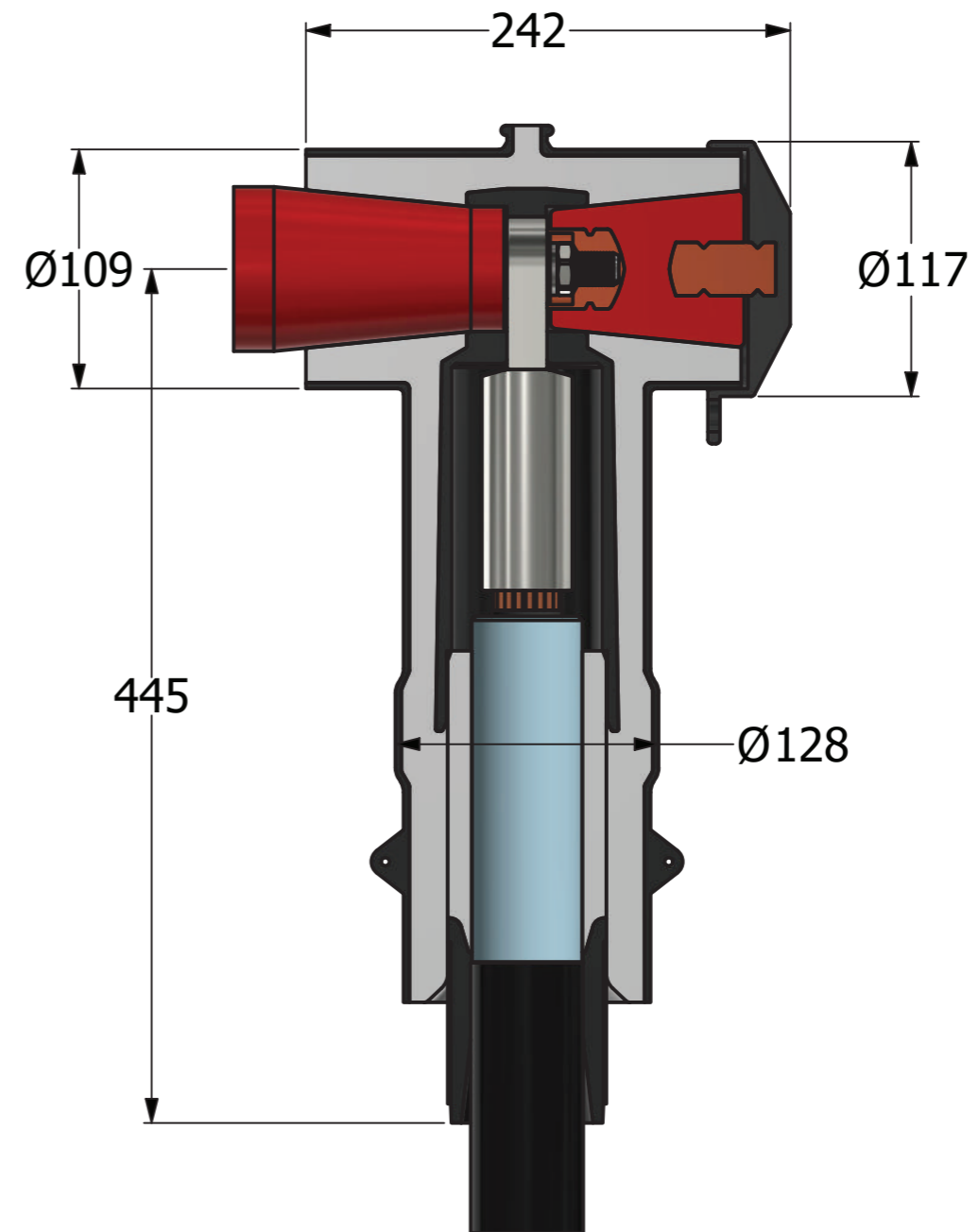
Maximum System Voltage	72.5 kV
Rated Voltage U_0	66 kV
Value of U_0 for Determination of Test Voltage	36 kV
Continuous Current Rating	1250 A
Lightning Impulse Withstand Level	325 kV
Partial Discharge Test	54 kV
Heating Cycle Voltage Test $2 U_0$	72 kV
AC 60Hz 30 min Withstand	90 kV
Cable Insulation Diameter	27mm - 70mm
Conductor Cross-Section Range	70mm ² - 1200mm ²

Tests conducted in accordance with IEC 60840.

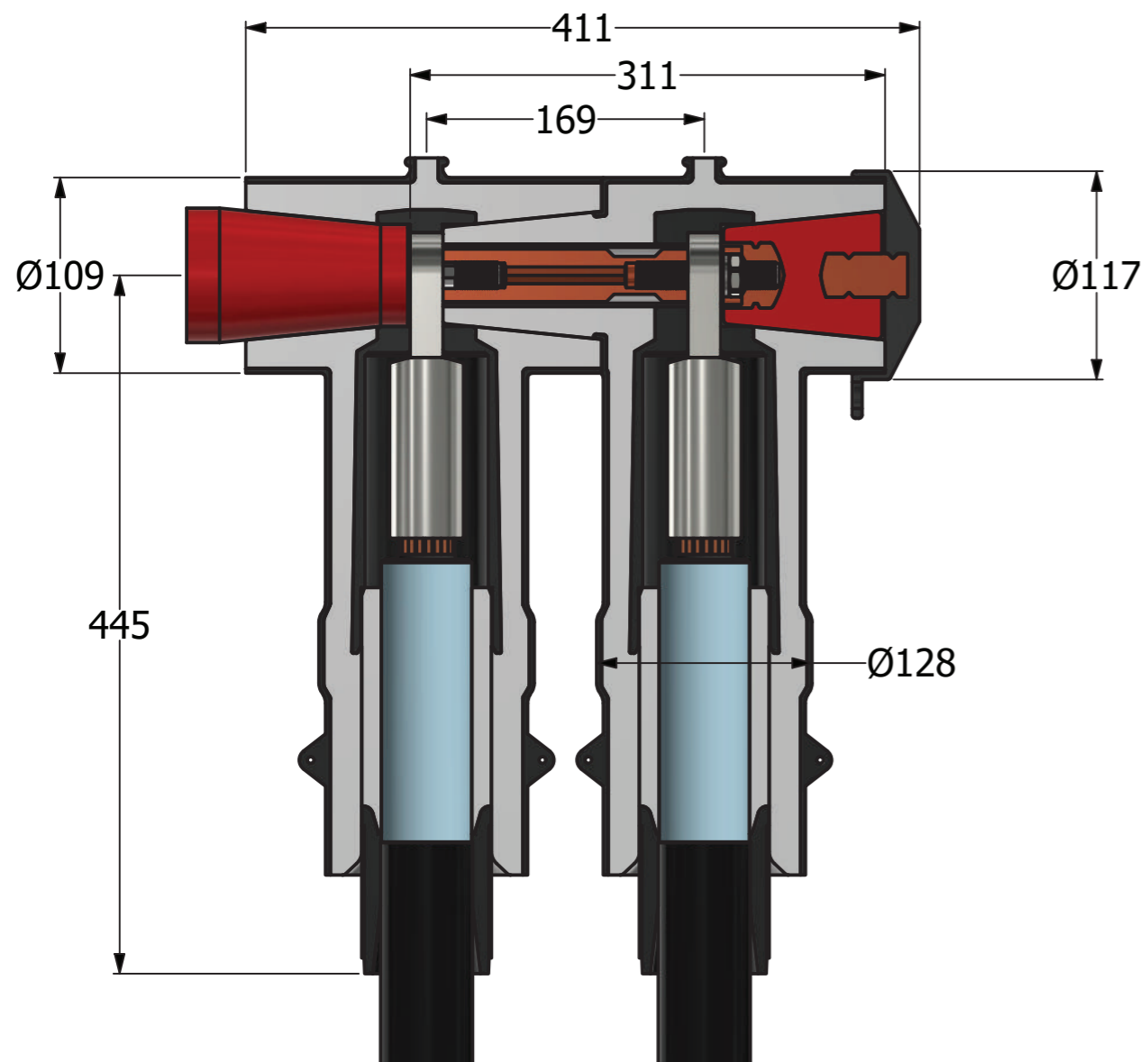
PRODUCTION TESTS

- Minimum Corona Voltage Level – 72kV < 5pC
- AC 60Hz 30 min Withstand - 90 kV

DIMENSIONS OF THE CHARDON 72 kV FRONT T-BODY CONNECTOR



DIMENSIONS OF THE CHARDON 72 kV FRONT & COUPLING (REAR) T-BODY CONNECTOR



ORDERING INFORMATION

72-	---	1250-	-	---	---	-
	STEP 1		STEP 2	STEP 3	STEP 4	STEP 5

STEP 1

Selection of Front / Rear T-body

Code	
FDT	Front T-body
RDT	Coupling (Rear) T-body

STEP 2

Selection of Cable Insulation Diameter

Code	mm
B	27.00 - 31.00
C	29.50 - 35.00
D	33.50 - 40.00
E	38.50 - 45.50
F	44.00 - 52.00
G	50.50 - 58.50
H	57.00 - 64.00
J	62.50 - 70.00

STEP3

Selection of Conductor Size: Compression Connectors

Conductor Code	Conductor Size (mm ²)
70	70
95	95
120	120
150	150
185	185
240	240
300	300
400	400
500	500
630	630
800	800
1000	1000
1200	1200

Selection of Conductor Size: Shear Bolt Connector

CATALOG NO.	Conductor Range(mm ²)
SBC-F-25-95/1	25 - 95
SBC-F-120-300/2	120 - 300
SBC-F-400-630/3	400 - 630
SBC-F-800/1200/4	800 - 1200



STEP4

Selection of Compression Connector Material

Code	
C	Copper

STEP5

Cable Specification

If the accessory is installed with a submarine cable, please add "SC" to the product code.

Ordering Example:

For a Chardon 72 kV Front T-body with a submarine cable insulation diameter of 28 mm and a conductor size of 185 mm², equipped with a copper compression connector, the part number would be as follows:

72-	FDT	1250	B	185	C	SC
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