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CÓDIGO

24-CE250

TERMINAL DESCONECTÁVEL COTOVELO - TDC-17,5/24kV-250A



APPLICATION

The Chardon Deadbreak Elbow Connector is a fully shielded and insulated termination for connecting underground cable to transformers, switch gear and other apparatus equipped with deadbreak bushings, junctions, or other deadbreak connectors.

The Chardon Deadbreak Elbow meets all the requirements of HD629.1, EN-50180, EN-50181 & IEC 60502, and is fully interchangeable with competitor's products and mating

products that meet EN-50180 & EN-50181.

Chardon Deadbreak Elbow Connectors are molded using high quality peroxide-cured insulating and semi-conducting EPDM rubber. All insulating rubber is compounded in house, using Chardon - developed proprietary formulations. Chardon Deadbreak Elbow Connectors a copper probe. Combined with the bi-metal compression lug, this ensures a reliable operating connection.

PRODUCTION TESTS

Tests conducted in accordance with HD 629.1.

- Minimum Corona Voltage Level – 22 kV < 3 pC
- AC 1 Minute Withstand – 60 kV
- Test Point Voltage Test

Tests conducted in accordance with Chardon manufacturing process requirements:

- Physical Inspection
- Periodic Dissection
- Periodic X-ray Analysis

VOLTAGE RATINGS

| | |
|---|-------------|
| Maximum Voltage Class (U _m) | 74 kV |
| AC 5 Minute Withstand | 57 kV |
| Minimum Corona Voltage Level | 22 kV < 3pC |
| BL and Full Wave Crest (Impulse) | 125 kV |

CURRENT RATINGS

| | |
|-----------------------------------|-------|
| Continuous Current | 250 A |
| Overload Current (8 hour maximum) | 300 A |

DETAILED COMPOSITION OF THE CHARDON DEADBREAK CONNECTOR

SEMICONDUCTING SHIELD

Precision molded peroxide cured semiconducting shield provides ground shield continuity and meets the requirements of IEEE Standard 592.

CABLE ENTRANCE

The sized cable entrance provides an interference fit to maintain a watertight seal.

DRAIN WIRE TAB

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

INSULATION LAYER

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

COMPRESSION CONNECTOR

Compression connector is sized to ensure a cool running connection with maximum current transfer.

CAPACITIVE TEST POINT

Capacitive test point on molded Elbow with snap-on cap provides a shielded, hotstick operable means to determine circuit condition.

PULLING EYE

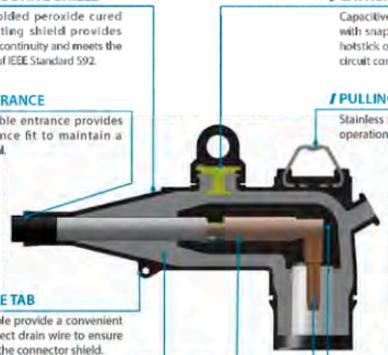
Stainless steel pulling eye for hotstick operations.

SEMICONDUCTING INSERT

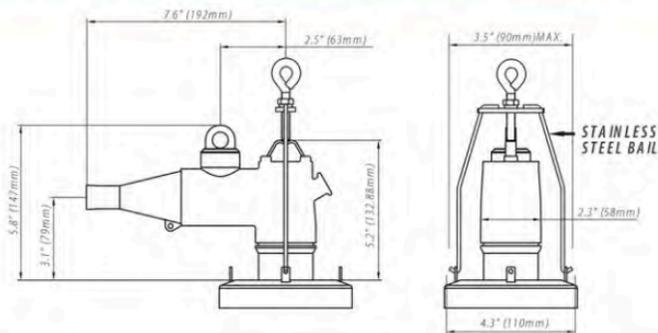
Precision molded peroxide cured semiconducting insert provides corona-free electrostatic shielding of the compression connector.

PROBE

Tin plated copper probe ensures reliable electrical connection.



DETAILED COMPOSITION OF THE CHARDON DEADBREAK CONNECTOR



ORDERING INFORMATION

17.5/24kV Deadbreak Elbow

Each kit Contains:

- / Elbow body
- / BI-Metal Compression Lug
- / Copper Probe
- / Probe Installation Tool
- / Bail Assembly
- / Silicone Grease
- / Installation Instruction Sheet

To order a Chardon 24kV Deadbreak Elbow Kit, follow the steps below:

24-CE250

"W"

"X"

"Y"

"Z"

"W" = Enter T if you need a Capacitive Test Point

"X" = Cable Range Code (See Cable Range Table)

"Y" = Conductor Code for Compression Connectors (See Conductor Table)

"Z" = Enter C if a Plated Copper Connector is Desired

If a shear bolt connector (SBC) is selected instead, the part number would be as follows:

24-CE250

"W"

"X"

"C"

SBC CATALOG NO.

Cable Range Table (Insulation Diameter)

| Cable Range Code | Inches | Millimeters |
|------------------|---------------|-------------|
| AA | 0.568 - 0.885 | 12.9 - 17.4 |
| A | 0.642 - 0.807 | 16.3 - 20.5 |
| B | 0.768 - 0.945 | 19.5 - 24.0 |
| C | 0.900 - 1.100 | 23.0 - 28.1 |

Conductor Code Table (Compression Connectors)

| CONDUCTOR CODE | Concentric or Compressed | | Compact or Solid | |
|----------------|--------------------------|-----------------|------------------|-----------------|
| | AWG or kcmil | mm ² | AWG or kcmil | mm ² |
| 01 | #6 | - | #4 | - |
| 02 | #4 | - | #3 | 25 |
| 03 | #3 | 25 | #2 | 35 |
| 04 | #2 | 35 | #1 | * |
| 05 | #1 | - | 1/0 | 50 |
| 06 | 1/0 | 90 | 2/0 | 70 |
| 07 | 2/0 | 70 | 3/0 | - |
| 08 | 3/0 | - | 4/0 | 95 |
| 09 | 4/0 | 95 | 250 | 120 |
| 10 | 250 | 120 | 300 | - |

Shear Bolt Connector Selection Guide

| Catalog No. | Conductor Range (mm ²) | Remarks |
|-------------------|------------------------------------|--|
| 2005BC-25-50/I-AL | 25-50 | Only suitable for Cable Range Code A |
| 2005BC-70-95/I-AL | 70-95 | Only suitable for Cable Range Code B and C |
| 2005BC-25-95/I-AL | 25-95 | Only suitable for Cable Range Code B and C |
| 2005BC-120/I-AL | 120 | Only suitable for Cable Range Code B and C |

Example:
For Shear Bolt Connector with a conductor Range between 25-50 mm²,
the part number would be: 2005BC-25-50/I-AL



2005BC Series

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CÓDIGO

24-CL250

TERMINAL DESCONECTÁVEL RETO - TDR-17,5/24kV-250A



APPLICATION

The Chardon Deadbreak Straight Connector is a fully shielded and insulated termination for connecting underground cable to transformers, switch gear and other apparatus equipped with deadbreak bushings, junctions, or other deadbreak connectors.

The Chardon Deadbreak Straight meets all the requirements of HD629.1, EN-50180, EN-50181 & IEC 60502, and is fully interchangeable with competitor's products

and mating products that meet EN-50180 & EN-50181.

Chardon Deadbreak Straight Connectors are molded using high quality peroxide-cured insulating and semi-conducting EPDM rubber. All insulating rubber is compounded in house, using Chardon-developed proprietary formulations. Chardon Deadbreak Straight Connector contains a copper or bi-metal conductor contact, this ensures a reliable operating connection.

PRODUCTION TESTS

Tests conducted in accordance with HD 629.1.

- / Minimum Corona Voltage Level – 22 kV < 3 pC
- / AC 1 Minute Withstand – 60 kV
- / Test Point Voltage Test

Tests conducted in accordance with Chardon manufacturing process requirements:

- / Physical Inspection
- / Periodic Dissection
- / Periodic X-ray Analysis

VOLTAGE RATINGS

| | |
|-----------------------------------|-------------|
| Maximum Voltage Class (U_m) | 24 kV |
| AC 5 Minute Withstand | 57 kV |
| Minimum Corona Voltage Level | 22 kV < 3pC |
| BIL and Full Wave Crest (Impulse) | 125 kV |

CURRENT RATINGS

| | |
|-----------------------------------|-------|
| Continuous Current | 250 A |
| Overload Current (8 hour maximum) | 305 A |

DETAILED COMPOSITION OF THE CHARDON DEADBREAK STRAIGHT CONNECTOR

CAPACITIVE TEST POINT

Capacitive test point on molded Straight Connector with snap-on cap provides a shielded, hotstick operable means to determine circuit condition.

SEMICONDUCTING SHIELD

Precision molded peroxide cured semiconducting shield provides ground shield continuity and meets the requirements of IEEE Standard 592.

SEMICONDUCTING INSERT

Precision molded peroxide cured semiconducting insert provides corona-free electrostatic shielding of the compression connector.

CABLE ENTRANCE

The sized cable entrance provides an interference fit to maintain a watertight seal.

CONDUCTOR CONTACT

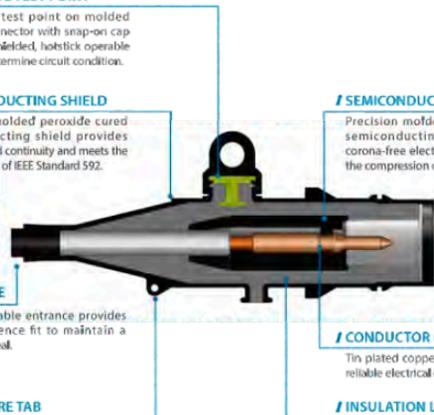
Tin plated copper connector ensures reliable electrical connection.

DRAIN WIRE TAB

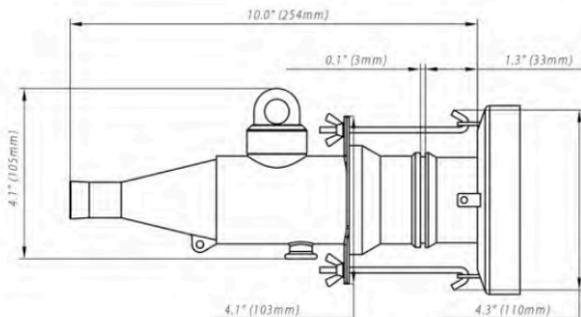
Drain wire tab provide a convenient point to connect drain wire to ensure grounding of the connector shield.

INSULATION LAYER

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



DETAILED COMPOSITION OF THE CHARDON DEADBREAK STRAIGHT CONNECTOR



ORDERING INFORMATION

17.5/24kV Straight Connector

Each kit Contains:

- / Straight Connector body
- / Ball Assembly
- / Installation Instruction Sheet
- / Conductor Contact
- / Silicone Grease

To order a Chardon 24kV Deadbreak Straight Connector Kit, follow the steps below:

24-CL250

"W"

"X"

"Y"

"Z"

"W" = Enter T if want a Capacitive Test Point

"X" = Cable Range Code (See Cable Range Table)

"Y" = Conductor Code (See Conductor Table)

"Z" = Enter C if a plated Copper Connector is Desired

Cable Range Table (Insulation Diameter)

| Cable Range Code | Inches | Millimeters |
|------------------|---------------|-------------|
| AA | 0.508-0.685 | 12.9-17.4 |
| A | 0.642 - 0.807 | 16.3 - 20.5 |
| B | 0.768 - 0.945 | 19.5 - 24.0 |
| C | 0.906 - 1.106 | 23.0 - 28.1 |

Conductor Code Table (Compression Connectors)

| CONDUCTOR CODE | Concentric or Compressed | | Compact or Solid | |
|----------------|--------------------------|-----------------|------------------|-----------------|
| | AWG or kcmil | mm ² | AWG or kcmil | mm ² |
| 03 | #3 | 25 | #2 | 35 |
| 04 | #2 | 35 | #1 | - |
| 05 | #1 | - | 1/0 | 50 |
| 06 | 1/0 | 50 | 2/0 | 70 |
| 07 | 2/0 | 70 | 3/0 | - |
| 08 | 3/0 | - | 4/0 | 95 |
| 09 | 4/0 | 95 | 250 | 120 |
| 18 | 250 | 120 | 300 | - |

Shear Bolt Connector Selection Guide

| Catalog No. | Conductor Range (mm ²) | Remarks |
|-------------------|------------------------------------|--|
| 2005BC-25-50/1-AL | 25-50 | Only suitable for Cable Range Code A |
| 2005BC-70-95/1-AL | 70-95 | Only suitable for Cable Range Code B and C |
| 2005BC-25-95/1-AL | 25-95 | Only suitable for Cable Range Code B and C |
| 2005BC-120/1-AL | 120 | Only suitable for Cable Range Code B and C |

Example:

For Shear Bolt Connector with a conductor Range between 25-50 mm², the part number would be : 2005BC-25-50/1-AL



2005SBC Series

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24-DBI250

PLUGUE DE INSERÇÃO SIMPLES - PIS-17,5/24kV-250A



APPLICATION

The Chardon Deadbreak Bushing Insert threads into a standard 250A bushing well. It is a fully shielded, fully submersible separable connector designed for deadbreak operation. The Chardon Deadbreak Bushing Insert is suitable for 17.4/24 kV class systems and can be installed in transformers, switchgear or other apparatus when needed to connect with deadbreak connectors.

The Chardon Deadbreak Bushing Insert incorporates an all copper current path. This provides reliable and consistent performance under all conditions. The design meets all the requirements of HD629.1, EN-50180, EN50181 & IEC 60502, and is fully interchangeable with competitor's products and all mating products that also meet EN-50180 & EN-50181.

PRODUCTION TESTS

Tests conducted in accordance with IEEE/ANSI Standard 386.

- / Minimum Corona Voltage Level – 22 kV < 3 pC
- / AC 1 Minute Withstand – 60 kV
- / Test Point Voltage Test

Tests conducted in accordance with Chardon manufacturing process requirements:

- / Physical Inspection
- / Periodic Dissection
- / Periodic X-ray Analysis

VOLTAGE RATINGS

| | |
|---|-------------|
| Maximum Voltage Class (U _m) | 24 kV |
| AC 5 Minute Withstand | 57 kV |
| Minimum Corona Voltage Level | 22 kV < 3pC |
| BIL and Full Wave Crest @pulse) | 125 kV |

+28 0201230-REV000P1621

CURRENT RATINGS

| | |
|-----------------------------------|-------|
| Continuous Current | 250 A |
| Overload Current (8 hour maximum) | 300 A |

DETAILED COMPOSITION OF THE CHARDON DEADBREAK BUSHING INSERT

SEMICONDUCTING SHIELD

Precision molded peroxide cured semiconducting shield provides groundshield continuity and meets the requirements of IEEE Standard 592.

COPPER CONDUCTOR

Copper conductor ensure a cool running with maximum current transfer.

LOUVER CONTACT

The plated copper contact provides a consistent current transfer during operation.

THREADED CONNECTION TO BUSHING WELL

3/8"-16 UNC copper thread provides connection to bushing well.

DRAIN WIRE TAB

Drain wire table provide 3 convenient point to connect drain wire to ensure grounding of the connector shield.

INSULATION LAYER

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

ORDERING INFORMATION

250A, 24 kV Deadbreak Bushing Insert

24-DBI250

Each portable feed thru kit Includes the following:

- / Deadbreak Bushing Insert
- / Shipping Cap (not for energized operation)
- / Silicon Lubricant
- / Installation Instruction Sheet

4.55" (115.7mm)



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CÓDIGO **24-DIB250**

BUCHA DE LIGAÇÃO DE EQUIPAMENTO - BLE-24kV-250A



APPLICATION

The Chardon 24kV Interface AI equipment bushing meets the full requirement of EN 50180, EN 50181&IEC 60137, provides a sliding interface made of quality epoxy. The

part is used in equipment insulated with oil fluid, such as transformers, switchgears and capacitors. It equipped with 6 tabs for the bail restraint.

PRODUCTION TESTS

Tests conducted in accordance with IEC 60137

- Minimum Corona Voltage Level - 20.8 kV
- AC 5 Minute Withstand - 55 kV

Tests conducted in accordance with Chardon manufacturing process requirements:

- Physical Inspection
- Periodic Dissection
- Periodic X-ray Analysis

VOLTAGE RATINGS

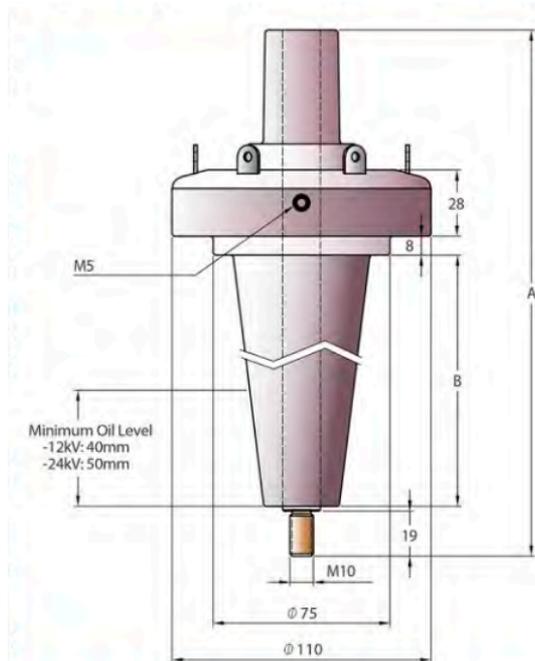
| | |
|------------------------------|-----------------|
| Voltage Class (U_m) | 24 kV |
| AC 5 Minute Withstand | 55 kV |
| BIL and Full Wave Crest | 125 kV |
| Minimum Corona Voltage Level | 20.8 kV < 10 pC |

CURRENT RATINGS

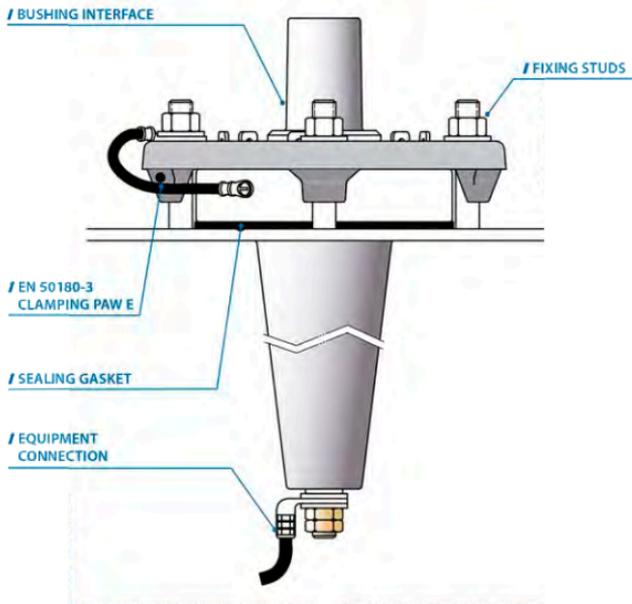
| | |
|--------------------|-------|
| Continuous Current | 250 A |
|--------------------|-------|

- 34-DIB250-101123-REV03

ORDERING INFORMATION



| Chardon Part Number | Dimensions | |
|---------------------|------------|-----|
| | A | B |
| 24-DIB250-1-I | 284 | 168 |
| 24-DIB250-2-I | 222 | 806 |
| 24-DIB250-3-I | 171 | 55 |

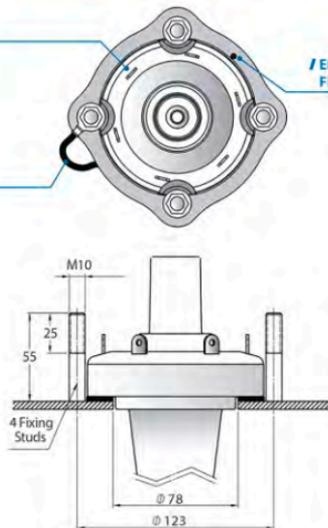


Fixings For Interface A1 Equipment Bushings EN 50180-3 & DIN 42 538

/ TABS FOR BAIL RESTRAINT

/ EN 50180-3 & DIN 42 538 FLANGE RING A

/ EARTH JUMPER



Note:

To order components with the bushing, please follow the chart below:

| | |
|-----------------------|--|
| Earth Lead | Chardon Part Number + EL |
| Earth Plate | Chardon Part Number + EP |
| Flange kit (Optional) | Chardon Part Number + EL + FL or EP + FL |

Ordering Example:

To order a Chardon interface A1 Equipment bushing A=284mm, with earth plate and the flange, order the P/N: 24-DIB250-1-EP-FL

To order a Chardon Interface A1 Equipment bushing A=222mm, with earth lead only, P/N will be: 25-DIB-250-2-EL

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24-DIC250

RECEPTÁCULO ISOLANTE BLINDADO - RIB-24kV-250A



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APPLICATION

The Chardon 24kV 250A Insulated Protective Cap can be used for temporary or permanent applications and provides a submersible, fully shielded insulated cap for energized bushings. When installed on a IEC bushing interface or junctions, it is properly grounded using the attached drain wire, and providing physically seal and electrically insulate bushing interfaces.

KEY FEATURES

- Provides a fully shielded and submersible connection when mated with the proper bushings.
- EN-50180 Type "A" interface.
- Mounting can be vertical, horizontal, or any angle in between.
- No minimum phase clearance requirements.
- 100% electrical tested at factory.

PRODUCTION TESTS

Tests conducted in accordance with IEC60502-4, HD629.1, GB/T12706.4.

- Minimum Corona Voltage Level – 22 kV < 3 pC
- AC 1 Minute Withstand – 60 kV
- Impulse sampling test – 125kV

Tests conducted in accordance with Chardon manufacturing process requirements:

- Physical Inspection
- Periodic Dissection
- Periodic X-ray Analysis

VOLTAGE RATINGS

| | |
|------------------------------|--------------|
| Max. Rating Phase to Ground | 24 kV |
| AC 60Hz 1 Minute Withstand | 57 kV |
| Minimum Corona Voltage Level | 22 kV @ 10pC |
| Bl. and Full Wave Crest | 125kV |

Each kit includes the following:

- Insulated Cap
- Silicone Grease
- Installation Instruction Sheet
- Bail Assembly

• Revision: Date: 12.21.2023

The Chardon Insulated cap design incorporates peroxide cured, EPDM insulation rubber, and a semi-conducting insert and outer shield. The outer conductive shield maintains ground potential on the cap's surface when a grounding wire is connected to a common ground.

DETAILED COMPOSITION OF THE CHARDON 24KV INSULATED CAP

DRAIN WIRE TAB

Drain wire tabs provide a convenient point to connect drain wire to ensure grounding of the connector shield. A drain wire is included with the product.

SEMICONDUCTING INSERT

Precision molded peroxide cured semiconducting insert provides corona-free electrostatic shielding of the connector.

PROBE

Brass probe provides reliable conductive path with mating female contacts.

PULLING EYE

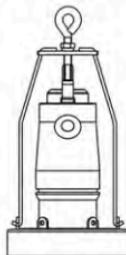
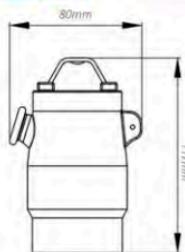
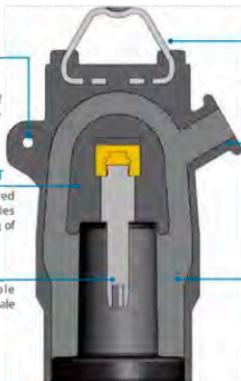
Stainless steel pulling eye for hotstick operations.

SEMICONDUCTING SHIELD

Precision molded peroxide cured semiconducting shield provides ground shield continuity.

INSULATION LAYER

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



ORDERING INFORMATION

24 kV, 250A Insulated Protective Cap

24-DIC250

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24-DIC630

RECEPTÁCULO ISOLANTE BLINDADO - RIB-24kV-630A



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APPLICATION

The Chardon 24kV 630A Insulated Protective Cap can be used for temporary or permanent applications and provides a submersible, fully shielded insulated cap for energized bushings.

When installed on a IEC bushing interface or junctions, it is properly grounded using the

attached drain wire, and providing physically seal and electrically insulate bushing interfaces.

The Chardon insulated cap design incorporates peroxide cured EPDM insulation rubber, and a semi-conducting insert and outer shield.

KEY FEATURES

- Provides a fully shielded and submersible connection when mated with the proper bushings.
- EN-50181 Type "C" 630A interface.
- Mounting can be vertical, horizontal, or any angle in between.
- No minimum phase clearance requirements.
- 100% electrical tested at factory.

PRODUCTION TESTS

Tests conducted in accordance with IEC60502-4, HD629.1, GB/T12706.4.

- Minimum Corona Voltage Level – 22 kV < 3 pC
- AC 1 Minute Withstand – 60 kV
- Impulse sampling test – 125 kV

Tests conducted in accordance with Chardon manufacturing process requirements:

- Physical Inspection
- Periodic Dissection
- Periodic X-ray Analysis

VOLTAGE RATINGS

| | |
|------------------------------|---------------|
| Max. Rating Phase to Ground | 24 kV |
| AC 60Hz 1 Minute Withstand | 57 kV |
| Minimum Corona Voltage Level | 22 kV < 10 pC |
| BL and Full Wave Crest | 125 kV |

Each kit includes the following:

- Insulated Cap
- Silicone Grease
- Installation Instruction Sheet

DETAILED COMPOSITION OF THE CHARDON 24KV 630A INSULATED CAP

PULLING EYE

Stainless steel pulling eye for hotstick operations.

DRAIN WIRE TAB

Drain wire tabs provide a convenient point to connect drain wire to ensure grounding of the connector shield. A drain wire is included with the product.

SEMICONDUCTING SHIELD

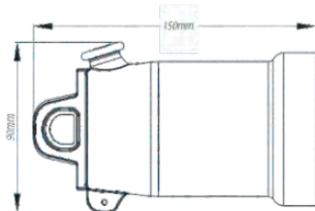
Precision molded peroxide cured semiconducting shield provides ground shield continuity.

SEMICONDUCTING INSERT

Precision molded peroxide cured semiconducting insert provides corona-free electrostatic shielding of the connector.

INSULATION LAYER

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



ORDERING INFORMATION

24 kV, 630A Deadbreak Insulated Cap

24-DIC630

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CÓDIGO **24-FDT630 / 24-RDT630**

TERMINAL DESCONECTÁVEL 17,5/24kV-630A



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APPLICATION

The Chardon T-Body Connectors terminate polymeric cable to dead front apparatus such as transformers, switchgear, and other equipment. Suitable for both indoor and outdoor use, they can be utilized with all

polymeric cable types (XLPE, EPR, etc.) and conductors of either copper or aluminum at voltages of 17.5 kV or 24 kV.

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 (Us) | 24 kV |
| AC 5 Minute Withstand | 54 kV |
| Minimum Corona Voltage Level | 20 kV < 3pC |
| BIL and Full Wave Crest (Impulse) | 125 kV |
| Thermal Short Circuit (Conductor, 2 sec.) | 23 kA / 2s |
| Dynamic Short Circuit (Conductor, 10 sec.) | 82 kA / 10ms |
| Continuous Current | 630 A |
| Overload Current (8 hours maximum) | 900 A |

PRODUCTION TESTS

Tests conducted in accordance with IEC 60502-4.

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

Tests conducted in accordance with Chardon manufacturing process requirements:

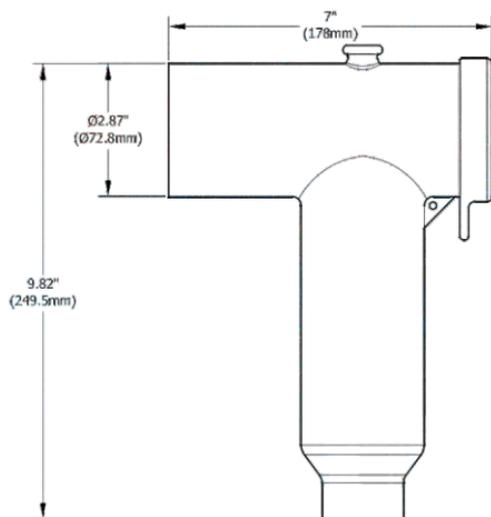
- Physical Inspection
- Periodic Dissection
- Periodic X-ray Analysis

- 24F07639-24R07630-01 3023-REV06

DETAILED COMPOSITION OF THE CHARDON 17.5 KV/24 KV FRONT T-BODY CONNECTOR



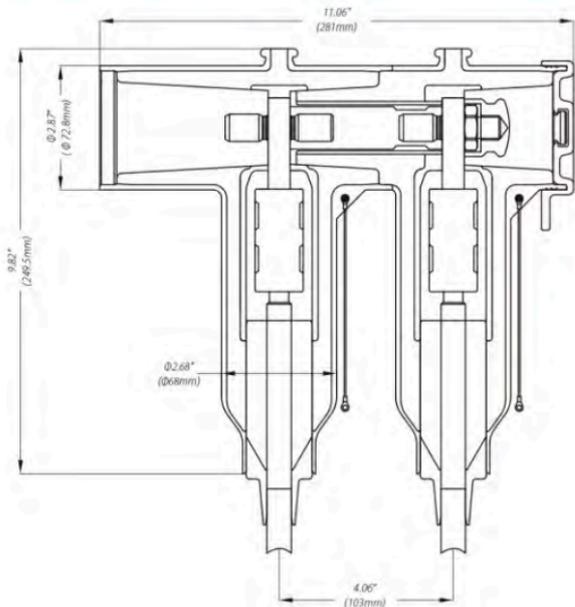
**DETAILED COMPOSITION OF THE CHARDON
17.5 KV/24 KV FRONT T-BODY CONNECTOR**



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



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



ORDERING INFORMATION

| | | | | | |
|-----|-------|------|-------|-------|-------|
| 24- | STEP1 | 630- | STEP2 | STEP3 | STEP4 |
|-----|-------|------|-------|-------|-------|

STEP1

Selection of Front / Rear T-body

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

STEP3

Selection of Conductor Size

| Conductor Code | Conductor Size (mm ²) |
|----------------|-----------------------------------|
| 20 | 25 |
| 35 | 35 |
| 50 | 50 |
| 70 | 70 |
| 95 | 95 |
| 120 | 120 |
| 150 | 150 |
| 185 | 185 |
| 240 | 240 |
| 300 | 300 |
| 400 | 400 |

Ordering Example:

For a CHARDON 24KV Front T-body with cable insulation outer dimension of 26.4mm and a conductor size of 185mm² with copper compression connector, the part number would be as follows.

| | | | | | |
|-----|-----|-----|---|-----|---|
| 24- | FDT | 630 | C | 185 | C |
|-----|-----|-----|---|-----|---|

If a shear bolt connector is selected in this kit, the part number would be as follows:

| | | | | |
|-----|-----|-----|---|---------------|
| 24- | FDT | 630 | C | SBC-B-25-50/1 |
|-----|-----|-----|---|---------------|

STEP2

Selection of Cable Insulation Dimension

| Range Code | mm |
|------------|-------------|
| A | 15.5 - 19.0 |
| B | 18.0 - 23.0 |
| C | 22.0 - 27.0 |
| D | 26.0 - 32.0 |
| E | 31.0 - 37.0 |

STEP4

Selection of Compression Connector Material

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

NOTE
When ordering a shear bolt connector in a kit, use the chart below and add code in the end of the part number, for example, SBC-B-25-50/1.

Selection of Shear Bolt Connector Material

| Catalog No. | Conductor Range (mm ²) |
|-----------------|------------------------------------|
| SBC-B-25-50/1 | 25 - 50 |
| SBC-B-70-95/1 | 70 - 95 |
| SBC-B-70-120/2 | 70 - 120 |
| SBC-B-150-240/2 | 150 - 240 |

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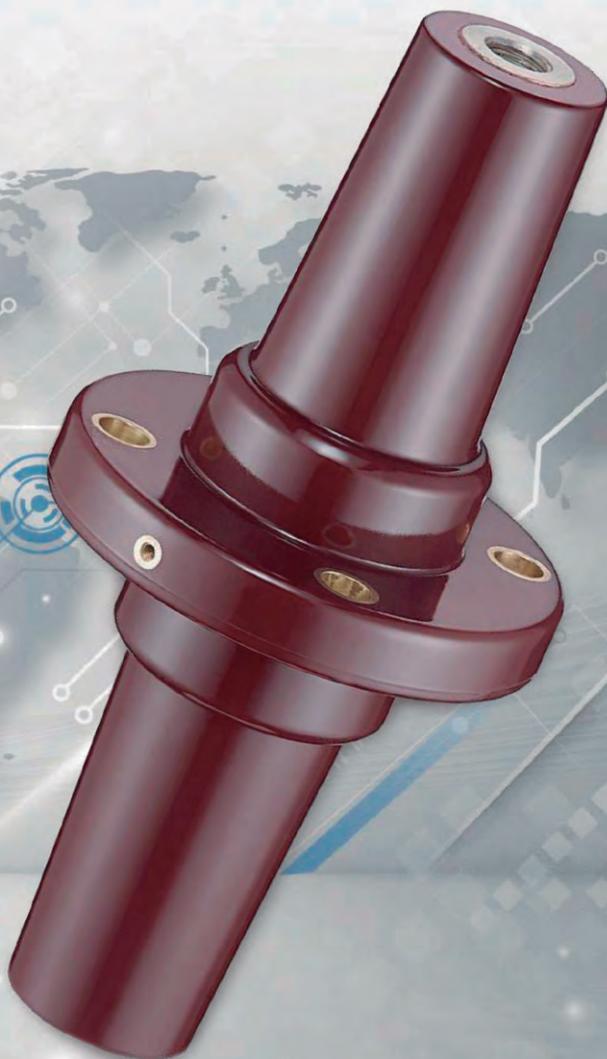
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24-TCP630
36-TCP630
42-TCP630
42-TCP1250

CÓDIGO

PUGUE DE CONEXÃO

PC-24/36/42kV-630/1250A



APPLICATION

The Chardon Connecting Plug is molded from high quality insulating epoxy material. It meets all the requirements of the DIN47636 standard. The interface is type C, per the specification of standard EN50181. The Chardon Connecting Plug is interchangeable with other manufacturer's products that meet the same standard. The Chardon Connecting Plug can be installed in

junction boxes or other equipment, and used in conjunction with T-body connectors and arresters. The product is fully insulated and submersible, designed to be fully functional in underwater applications.

PRODUCTION TESTS

The following tests are conducted in accordance with IEC60502-4 and GB/T12706.4. All production tests are conducted on 100% of products manufactured.

| Chardon Catalog Number | Voltage Class | Partial Discharge (3pc) | AC Withstand | Impulse Withstand |
|------------------------|---------------|-------------------------|---------------|-------------------|
| 24-TCP630 | 17.5 / 24 kV | 20 kV | 54 kV / 5min | 125 kV |
| 36-TCP630 | 36 kV | 30 kV | 81 kV / 5min | 170 kV |
| 42-TCP630 | 42 kV | 45 kV | 117 kV / 5min | 200 kV |
| 42-TCP1250 | 42 kV | 45 kV | 117 kV / 5min | 200 kV |

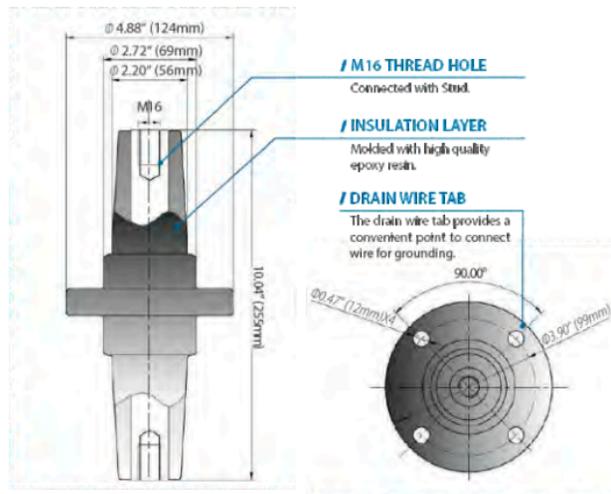
Additional tests conducted in accordance with Chardon manufacturing process requirements:

- / Physical Inspection
- / Periodic Dissection
- / Periodic X-ray Analysis
- / Periodic Impulse Withstand Voltage Test

VOLTAGE RATINGS

| Chardon Catalog Number | 24-TCP630 | 36-TCP630 | 42-TCP630 | 42-TCP1250 |
|---|---------------|---------------|----------------|----------------|
| Voltage Class (U_m) | 17.5 / 24 kV | 36 kV | 42 kV | 42 kV |
| AC Withstand Voltage | 54 kV / 5 min | 81 kV / 5min | 117 kV / 5 min | 117 kV / 5 min |
| Partial Discharge | 20 kV ≤ 10 pC | 30 kV ≤ 10 pC | 45 kV ≤ 10 pC | 45 kV ≤ 10 pC |
| Impulse Withstand Voltage (10 Times for each polarity) | 125 kV | 170 kV | 200 kV | 200 kV |
| Current Rating | 630 A | 630 A | 630 A | 1250 A |

DETAILED COMPOSITION OF THE CHARDON CONNECTING PLUG



ORDERING INFORMATION

Interface C Connecting Plug

| | |
|---------------------------------|------------|
| 17.5/24 kV 630A Connecting Plug | 24-TCP630 |
| 36 kV 630A Connecting Plug | 36-TCP630 |
| 42 kV 630A Connecting Plug | 42-TCP630 |
| 42 kV 1250A Connecting Plug | 42-TCP1250 |

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26-RDTA66

26-RDTA72-10

CÓDIGO

TERMINAL DESCONECTÁVEL PARA-RAIOS - 26/66/72kV



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CÓDIGO

34-RDTA85
34-RDTA95-10

TERMINAL DESCONECTÁVEL COTOVELO PARA-RAIOS - 34/85/95kV



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APPLICATION

The Chardon T-Body Surge Arrester is an arrester combined within a coupling (rear) T-Body interface. It is designed to protect

apparatus, including transformers, switchgear, and other equipment from high voltage surges due to lightning or switching.

KEY FEATURES

- Provides fully shielded deadfront arrester protection.
- Metal (zinc Oxide Varistor (MOV) gapless design.
- EPDM insulation rubber molded around MOV module.
- Mounting can be vertical, horizontal, or any angle in between.
- No minimum phase clearance requirements.
- 100% electrical tested at factory.

PRODUCT RATINGS

| | 34-RDTA85 | 34-RDTA95-10 |
|---|-----------|--------------|
| Rated Voltage Class (Ur) | 34 kV | 34 kV |
| Nominal Discharge Current of Arrester | 5 kA | 10 kA |
| Residual Voltage of Nominal Discharge Current | ≤ 65 kV | ≤ 65 kV |
| Maximum Continuous Operating Voltage | 27.2 kV | 27.2 kV |
| Voltage of DC 1mA Current | ≥ 48 kV | ≥ 48 kV |

PRODUCTION TESTS

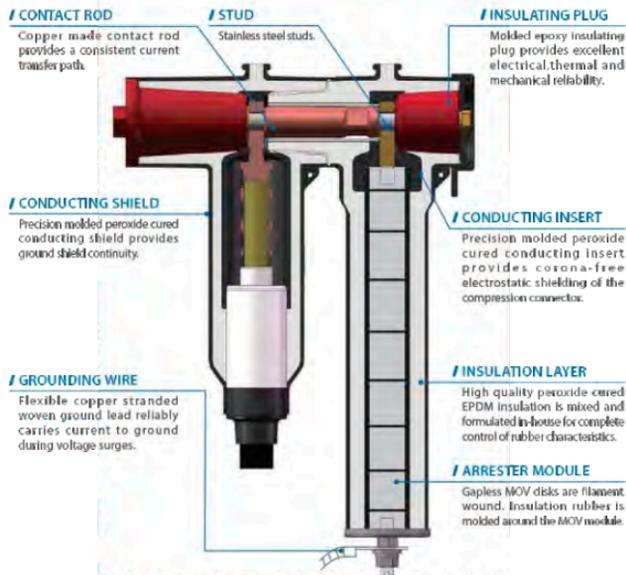
Tests conducted in accordance with IEC 60099-4.

- Minimum Corona Voltage Level – 29kV < 3pc
- Voltage of DC 1mA Current – ≥ 48kV

Tests conducted in accordance with Chardon manufacturing process requirements:

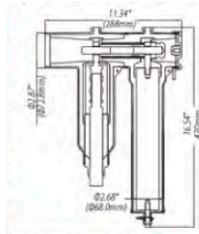
- Physical Inspection
- Periodic Dissection
- Periodic X-ray Analysis

DETAILED COMPOSITION OF THE CHARDON 34 KV/85 KV COUPLING (REAR) T-BODY SURGE ARRESTER



ORDERING INFORMATION

| | |
|---|--------------|
| 34kV/85kV 5kA Coupling(Rear) T-body Surge Arrester | 34-RDTA85 |
| 34kV/95kV 10kA Coupling(Rear) T-body Surge Arrester | 34-RDTA95-10 |



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CÓDIGO **36-DIB400**

BUCHA DE LIGAÇÃO DE EQUIPAMENTO BLE - 36kV-400A



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APPLICATION

The Chardon 36 kV Interface B2 equipment part is designed for use in equipment utilizing oil as insulating fluid, commonly used in transformers, switch gears and capacitors.

PRODUCTION TESTS

Tests conducted in accordance with IEC 60137

- Minimum Corona Voltage Level - 31.2 kV
- AC 1 Minute Withstand - 77 kV

Tests conducted in accordance with Chardon manufacturing process requirements:

- Physical Inspection
- Periodic Dissection
- Periodic X-ray Analysis

VOLTAGE RATINGS

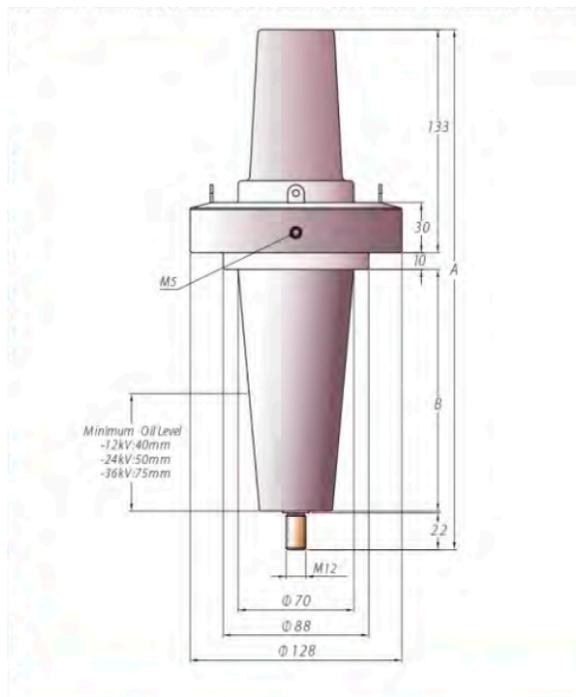
| | |
|------------------------------|----------------------|
| Voltage Class (U_m) | 36 kV |
| AC 1 Minute Withstand | 77 kV |
| BIL and Full Wave Crest | 170 kV |
| Minimum Corona Voltage Level | 31.2 kV \leq 10 pC |

CURRENT RATINGS

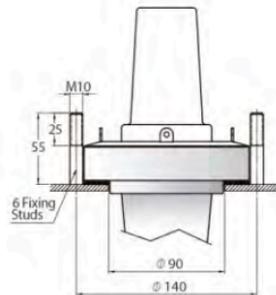
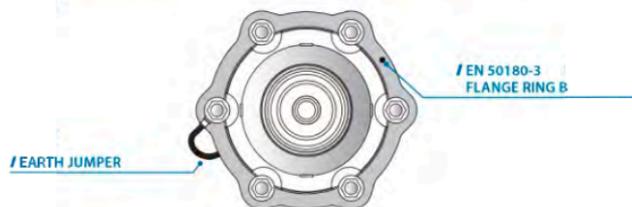
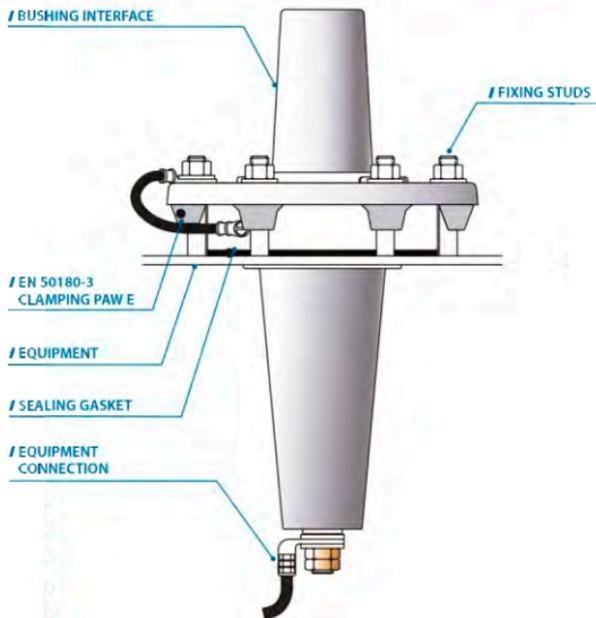
| | |
|--------------------|-------|
| Continuous Current | 400 A |
|--------------------|-------|

Revision Date: 07.10.2024

ORDERING INFORMATION



| Chardon Part Number | Dimensions | |
|---------------------|------------|-----|
| | A | B |
| 36-DIB400-11 | 300 | 213 |
| 36-DIB600-11 | 310 | 144 |



Note:

To order components with the bushing, please follow the chart below:

| | |
|-----------------------|--------------------------------------|
| Earth Lead | Chardon Part Number + EL |
| Earth Plate | Chardon Part Number + EP |
| Flange Kit (Optional) | Chardon Part Number + EL+FL or EP+FL |

Ordering Example:

To order a Chardon Interface B2 Equipment bushing A=300mm with earth plate and the flange, the P/N will be 36-DIB400-14-EP-FL.
To order a Chardon Interface B2 Equipment bushing A=310mm with earth lead only, the P/N will be 36-DIB400-3-EL.

Fixings for Interface B2 Equipment Bushings

EN 50180-3 & DIN 42 538

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CÓDIGO **36-DIB630**

BUCHA DE LIGAÇÃO DE EQUIPAMENTO BLE - 36kV-630A



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APPLICATION

The Chardon 36 kV Interface C1 equipment bushing meets the full requirements of CENELEC EN 50181 and IEC 60137, provides a bolted interface made of quality epoxy. The part is

designed for use in equipment utilizing oil as insulating fluid, commonly used in transformers, switch gears and capacitors.

PRODUCTION TESTS

Tests conducted in accordance with IEC 60137

- / Minimum Corona Voltage Level - 31.2 kV
- / AC 1 Minute Withstand - 77 kV

Tests conducted in accordance with Chardon manufacturing process requirements:

- / Physical Inspection
- / Periodic Dissection
- / Periodic X-ray Analysis

VOLTAGE RATINGS

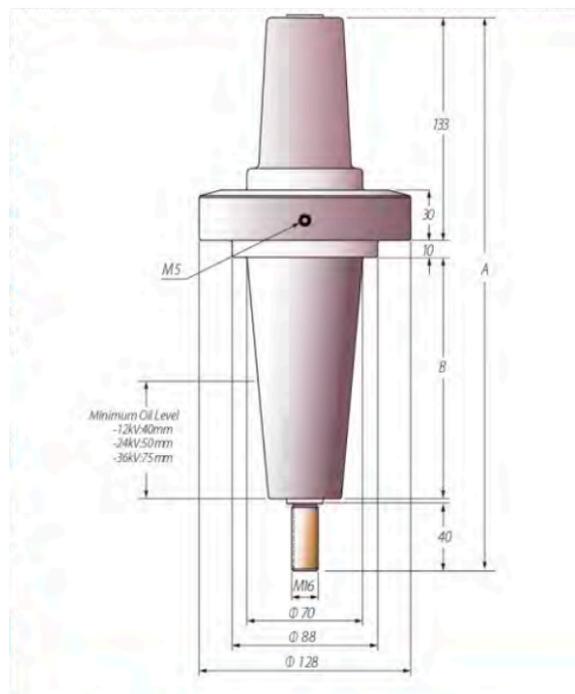
| | |
|---------------------------------|-----------------|
| Voltage Class (U _m) | 36 kV |
| AC 1 Minute Withstand | 77 kV |
| BIL and Full Wave Crest | 170 kV |
| Minimum Corona Voltage Level | 31.2 kV < 10 pC |

CURRENT RATINGS

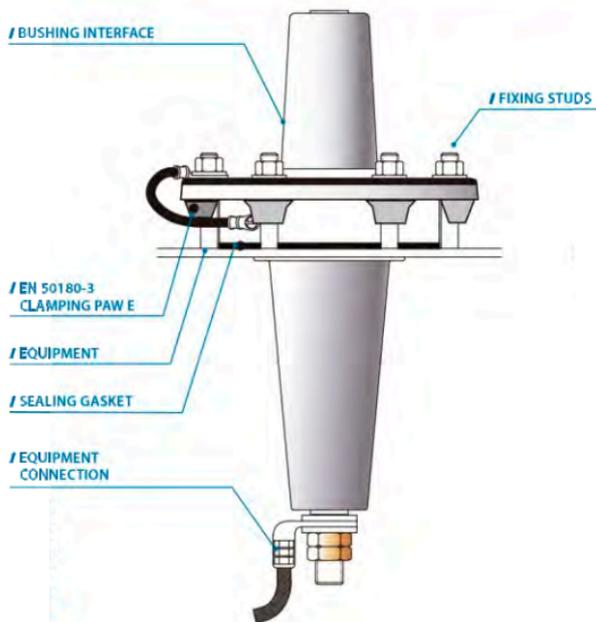
| | |
|--------------------|-------|
| Continuous Current | 630 A |
|--------------------|-------|

- Revision Date: 07.10.2024

ORDERING INFORMATION

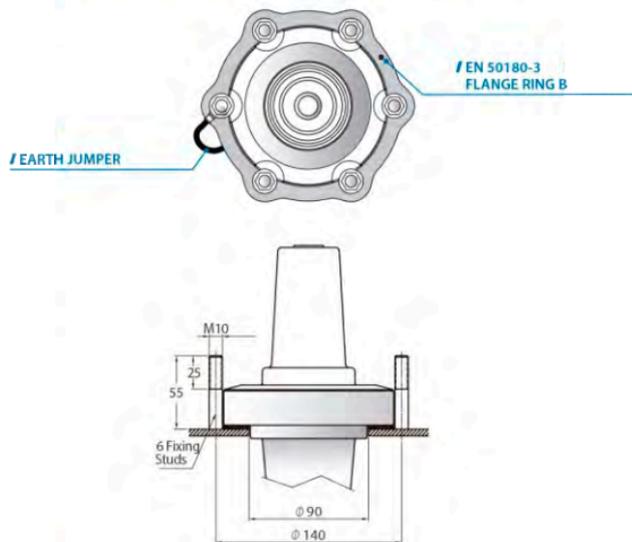


| Chardon Part Number | Dimensions | |
|---------------------|------------|-----|
| | A | B |
| 36-DIB630-1-1 | 398 | 213 |
| 36-DIB630-2-1 | 350 | 144 |



Fixings for Interface C1 Equipment Bushings

EN 50180-3 & DIN 42 538



Note:

To order components with the bushing, please follow the chart below:

| | |
|-----------------------|--------------------------------------|
| Earth Lead | Chardon Part Number + EL |
| Earth Plate | Chardon Part Number + EP |
| Flange kit (Optional) | Chardon Part Number + EL+FL or EP+FL |

Ordering Example:

To order a Chardon Interface C1 Equipment bushing A=398mm with earth plate and the flange, order the P/N: 36-DIB630-1-I-EP-FL;
To order a Chardon Interface C1 Equipment bushing A=390mm with earth lead only, the P/N will be 36-DIB630-2-I-EL.

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CÓDIGO **36-DIC630**

RECEPTÁCULO ISOLANTE BLINDADO - RIB-36kV-630A



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APPLICATION

The Chardon 36kV 630A Insulated Protective Cap can be used for temporary or permanent applications and provides a submersible, fully shielded insulated cap for energized bushings.

When installed on a IEC bushing interface or junctions, it is properly grounded using the

attached drain wire, and providing physically seal and electrically insulate bushing interfaces.

The Chardon insulated cap design incorporates peroxide cured EPDM insulation rubber, and a semi-conducting insert and outer shield.

KEY FEATURES

- Provides a fully shielded and submersible connection when mated with the proper bushings.
- EN-50181 Type "C" 630A interface.
- Mounting can be vertical, horizontal, or any angle in between.
- No minimum phase clearance requirements.
- 100% electrical tested at factory.

PRODUCTION TESTS

Tests conducted in accordance with IEC60502-4, HD629.1, GB/T12706.4.

- Minimum Corona Voltage Level - 30kV < 10pC
- AC 5 Minute Withstand - 81 kV
- Impulse sampling test - 170 kV

Tests conducted in accordance with Chardon manufacturing process requirements:

- Physical Inspection
- Periodic Dissection
- Periodic X-ray Analysis

VOLTAGE RATINGS

| | |
|------------------------------|---------------|
| Maximum Voltage Class (Um) | 36 kV |
| AC 5 Minute Withstand | 81 kV |
| Minimum Corona Voltage Level | 30 kV < 10 pC |
| BL and Full Wave Crest | 170 kV |

Each kit includes the following:

- Insulated Cap
- Silicone Grease
- Installation Instruction Sheet

DETAILED COMPOSITION OF THE CHARDON 36KV 630A INSULATED CAP

PULLING EYE

Stainless steel pulling eye for hotstick operations.

DRAIN WIRE TAB

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

SEMICONDUCTING SHIELD

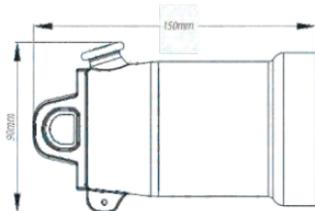
Precision molded peroxide cured semiconducting shield provides ground shield continuity.

SEMICONDUCTING INSERT

Precision molded peroxide cured semiconducting insert provides corona-free electrostatic shielding of the connector.

INSULATION LAYER

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



ORDERING INFORMATION

36 kV, 630A Deadbreak Insulated Cap

36-DIC630

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CÓDIGO **36-FDT400**

TERMINAL DESCONECTÁVEL 36kV-400A



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APPLICATION

Chardon 36kV 400A Front 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.

It is designed in accordance with Type B-400A interface as described by EN 50180 and

50181. 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 "B" 400A 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) | 36 kV |
| AC 5 Minute Withstand | 81 kV |
| DC 15 Minute Voltage Withstand | 72 kV |
| Minimum Corona Voltage Level | 30 kV - 10pC |
| RIL and Full Wave Crest (Impulse) | 170 kV |
| Thermal Short Circuit (Conductor 2 sec.) | 23 kA |
| Dynamic Short Circuit | 82 kA |
| Continuous Current | 400 A |

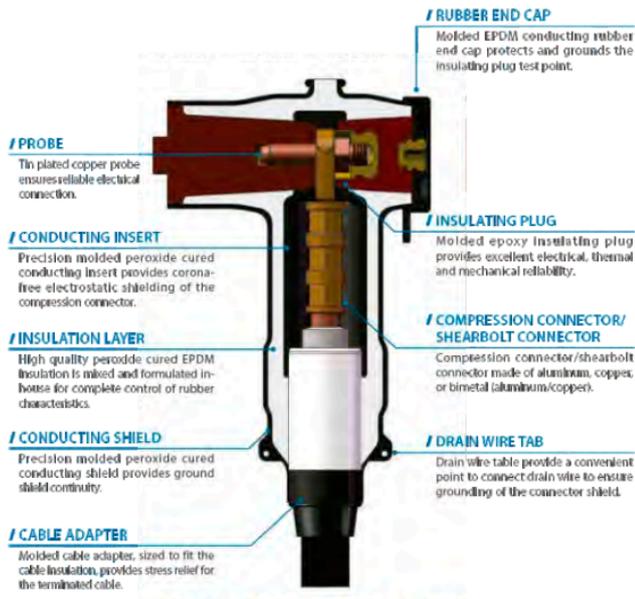
PRODUCTION TESTS

Tests conducted in accordance with IEC 60502-4.

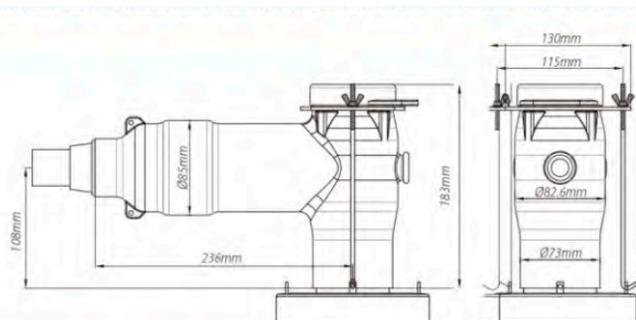
- Minimum Corona Voltage Level – 30 kV \leq 3pC
- AC 5 Minute Withstand – 81 kV

• 30FD7600-100215-REV01

DETAILED COMPOSITION OF THE CHARDON 36 KV 400A FRONT T-BODY CONNECTOR



DETAILED COMPOSITION OF THE CHARDON 36 KV 400A FRONT T-BODY CONNECTOR



ORDERING INFORMATION

| | | | | | |
|----|-------|-----|-------|-------|-------|
| 36 | STEP1 | 400 | STEP2 | STEP3 | STEP4 |
|----|-------|-----|-------|-------|-------|

STEP1

Selection of Front T-body

| Code | |
|------|-------------|
| FDT | FrontT-body |

STEP2

Selection of Cable Insulation Dimension

| Range Code | Inches | mm |
|------------|---------------|-------------|
| LA | 0.610 - 0.748 | 15.5 - 19.0 |
| LB | 0.789 - 0.827 | 18.0 - 21.0 |
| LC | 0.787 - 0.905 | 20.0 - 23.0 |
| LD | 0.868 - 0.984 | 22.0 - 25.0 |
| LE | 0.945 - 1.063 | 24.0 - 27.0 |
| LF | 1.024 - 1.142 | 26.0 - 29.0 |
| LG | 1.102 - 1.269 | 28.0 - 32.0 |
| LH | 1.220 - 1.339 | 31.0 - 34.0 |
| LI | 1.299 - 1.457 | 33.0 - 37.0 |
| LJ | 1.417 - 1.535 | 36.0 - 39.0 |
| LK | 1.496 - 1.654 | 38.0 - 42.0 |

STEP3

Selection of Conductor Size

| Conductor Code | Conductor Size (mm ²) |
|----------------|-----------------------------------|
| 29 | 25 |
| 35 | 35 |
| 50 | 50 |
| 76 | 70 |
| 95 | 95 |
| 120 | 120 |
| 150 | 150 |
| 185 | 185 |
| 240 | 240 |
| 300 | 300 |
| 480 | 480 |

STEP4

Selection of Compression Connector Material

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

Selection of Shear Bolt Connector Material

| Catalog No. | Conductor Range (mm ²) |
|------------------|------------------------------------|
| TSBC-B-25-50/1 | 25 - 50 |
| TSBC-B-70-95/1 | 70 - 95 |
| TSBC-B-70-120/2 | 70 - 120 |
| TSBC-B-150-240/2 | 150 - 240 |

Ordering Example:

For a CHARDON 36 KV 400A Front T-body with cable insulation outer dimension of 26.4 mm and a conductor size of 85 mm² with copper compression connector, the part number would be as follows:

| | | | | | |
|-----|-----|-----|----|-----|---|
| 36- | FDT | 400 | LE | 185 | C |
|-----|-----|-----|----|-----|---|

If using Shear Bolt Connectors, the part number would be as follows:

| | | | | | |
|-----|-----|-----|----|-----|-------------------|
| 36- | FDT | 400 | LE | 185 | T-SBC-B-150-240/2 |
|-----|-----|-----|----|-----|-------------------|

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CÓDIGO **36-FDT630 / 36-RDT630**

TERMINAL DESCONECTÁVEL 36kV-630A



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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 36kV 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 in accordance with EN 50181-2010.
- 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 _m) | 36 kV |
| AC 5 Minute Withstand | 81 kV |
| DC 15 Minute Voltage Withstand | 72 kV |
| Minimum Corona Voltage Level | 20 kV @ 10pC |
| BIL and Full Wave Crest (Impulse) | 170 kV |
| Thermal Short Circuit (Conductor, 2 sec.) | 23 kA |
| Dynamic Short Circuit | 82 kA |
| Continuous Current | 630 A |

PRODUCTION TESTS

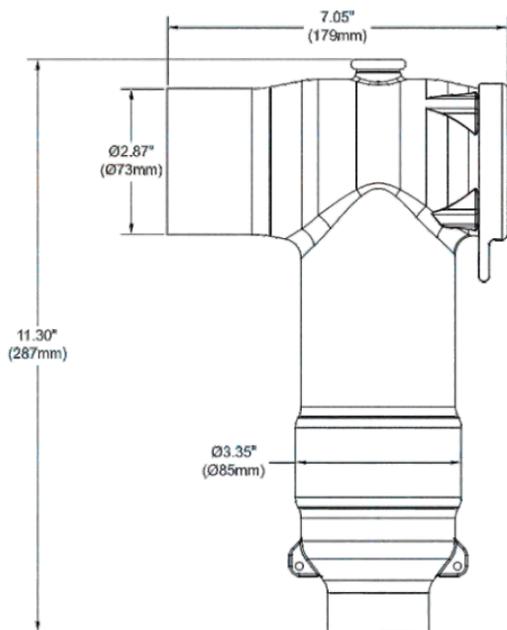
- Tests conducted in accordance with IEC 60502-4.
- Minimum Corona Voltage Level – 30 kV @ 3pC
 - AC 5 Minute Withstand – 81 kV

• 36 kV 630A 36EDY630-121322-REV04

DETAILED COMPOSITION OF THE CHARDON 36 KV FRONT T-BODY CONNECTOR



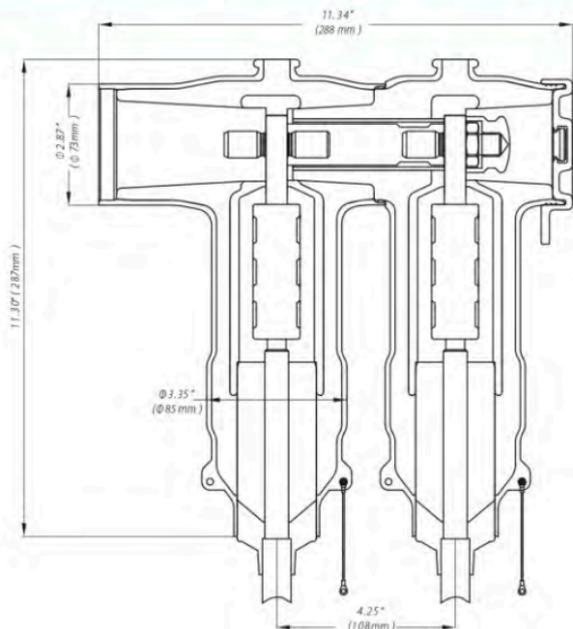
**DETAILED COMPOSITION OF THE CHARDON
36 KV FRONT T-BODY CONNECTOR**



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



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



ORDERING INFORMATION

| | | | | | |
|-----|-------|------|-------|-------|-------|
| 36- | STEP1 | 630- | STEP2 | STEP3 | STEP4 |
|-----|-------|------|-------|-------|-------|

STEP1

Selection of Front / Rear T-body

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

STEP2

Selection of Cable Insulation Dimension

| Range Code | mm (inch) |
|------------|-----------------------------|
| LA | 15.5 - 19.0 (0.610 - 0.748) |
| LB | 18.0 - 21.0 (0.709 - 0.827) |
| LC | 20.0 - 23.0 (0.787 - 0.905) |
| LD | 22.0 - 25.0 (0.866 - 0.984) |
| LE | 24.0 - 27.0 (0.945 - 1.063) |
| LF | 26.0 - 29.0 (1.024 - 1.142) |
| 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) |

Ordering Example:

For a CHARDON 36 KV Front T-body with cable insulation outer dimension of 33.9 mm and a conductor size of 185 mm² with copper compression connector, the part number would be as follows.

| | | | | | |
|-----|-----|-----|----|-----|---|
| 36- | FDT | 630 | LH | 185 | C |
|-----|-----|-----|----|-----|---|

If a shear bolt connector is selected in this kit, the part number would be 36-FDTs90LH-SBC-B-150-240/2.

| | | | | |
|-----|-----|-----|----|-----------------|
| 36- | FDT | 630 | LH | SBC-B-150-240/2 |
|-----|-----|-----|----|-----------------|

Chardon Shear Bolt Connector

Example:

ForceShear Bolt Connector with a conductor flange between 20-50 mm², the part number would be: SBC-B-25-50/1.

| CATALOG NO. | Conductor Range(mm ²) |
|-----------------|-----------------------------------|
| SBC-B-25-50/1 | 25 - 50 |
| SBC-B-70-95/1 | 70 - 95 |
| SBC-B-70-120/2 | 70 - 120 |
| SBC-B-150-240/2 | 150 - 240 |
| SBC-B-300-400/3 | 300 - 400 |

STEP3

Selection of Conductor Size

| Conductor Code | Conductor Size (mm ²) |
|----------------|-----------------------------------|
| 25 | 25 |
| 35 | 35 |
| 50 | 50 |
| 70 | 70 |
| 95 | 95 |
| 120 | 120 |
| 150 | 150 |
| 185 | 185 |
| 240 | 240 |
| 300 | 300 |
| 400 | 400 |

STEP4

Selection of Compression Connector Material

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



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36-RDTA102-10

CÓDIGO

TERMINAL DESCONECTÁVEL PARA-RAIOS - 36/102kV



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APPLICATION

The Chardon T-Body Surge Arrester is an arrester combined within a coupling (rear) T-Body interface. It is designed to protect

apparatus, including transformers, switchgear, and other equipment from high voltage surges due to lightning or switching.

KEY FEATURES

- Provides fully shielded deadfront arrester protection.
- Metal (zinc) Oxide Varistor (MOV) gapless design.
- EPDM insulation rubber molded around MOV module.
- Mounting can be vertical, horizontal, or any angle in between.
- No minimum phase clearance requirements.
- 100% electrical tested at factory.

PRODUCT RATINGS

36-RDTA102

| | |
|---|----------|
| Rated Voltage Class (Ur) | 36kV |
| Nominal Discharge Current of Arrester | 10kA |
| Residual Voltage of Nominal Discharge Current | <102 kV |
| Maximum Continuous Operating Voltage | 28.8 kV |
| Voltage of DC 1mA Current | ≥51.6 kV |

PRODUCTION TESTS

Tests conducted in accordance with IEC 60099-4.

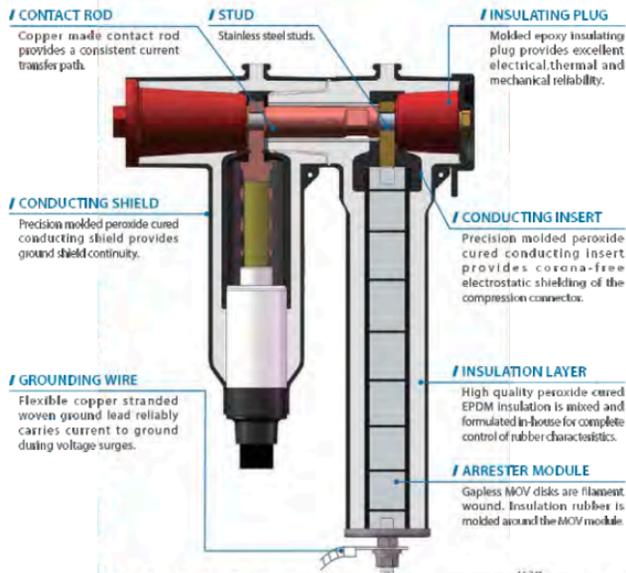
- Partial Discharge – 30.24kV<3pC
- Voltage of DC 1mA Current – ≥ 51.6 kV

Tests conducted in accordance with Chardon manufacturing process requirements:

- Physical Inspection
- Periodic Dissection
- Periodic X-ray Analysis

• 36-RDTA102-03/1/2023-REV.01

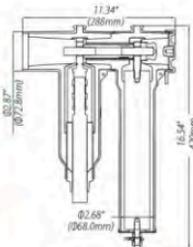
DETAILED COMPOSITION OF THE CHARDON 36 KV/102KV COUPLING (REAR) T-BODY SURGE ARRESTER



ORDERING INFORMATION

IEC 36/102 kV 10kA Rear T-body Surge Arrester

36-RDTA102-10



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CÓDIGO **42-BE1250**

EXTENSOR DE BUCHA BE - 42kV-1250A



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APPLICATION

The Chardon 42kV 1250A Bushing Extender can be used for temporary or permanent applications and provides a submersible, fully shielded insulated connection between energized bushings and Chardon 42kV rear Tbody product (42-RDT1250).

When installed between an IEC bushing and Chardon 42kV Front T, it is properly grounded

using the attached drain wire, and providing physically seal and electrically insulate bushing interfaces.

The Chardon Bushing Extender design incorporates peroxide cured, EPDM insulation rubber, and a semi-conducting insert and outershield.

KEY FEATURES

- Provides a fully shielded and submersible connection.
- No minimum phase clearance requirements.
- EN-50181 Type "C" 630A interface and Chardon 42kV Front T mating interface.
- 100% electrical tested at factory.

PRODUCTION TESTS

Tests conducted in accordance with IEC60502-4, HD629.1, GB/T12706.4.

- Minimum Corona Voltage Level – 45 kV < 10 pC
- AC 5 Minute Withstand – 117 kV
- Impulse sampling test – 200 kV

Tests conducted in accordance with Chardon manufacturing process requirements:

- Physical Inspection
- Periodic Dissection
- Periodic X-ray Analysis

VOLTAGE RATINGS

| | |
|------------------------------|---------------|
| Max. Rating Phase to Ground | 42 kV |
| AC 60Hz 5 Minute Withstand | 117 kV |
| Minimum Corona Voltage Level | 45 kV < 10 pC |
| BIL and Full Wave Crest | 200 kV |

• 42BE1250-011415-REV01

DETAILED COMPOSITION OF THE CHARDON 42KV 1250A BUSHING EXTENDER

SEMICONDUCTING SHIELD

Precision molded peroxide cured semiconducting shield provides ground shield continuity.

CHARDON DESIGN INTERFACE

Chardon design interface to be assembled with Chardon rear T-body.

SEMICONDUCTING INSERT

Precision molded peroxide cured semiconducting insert provides corona-free electrostatic shielding of the connector.

INSULATION LAYER

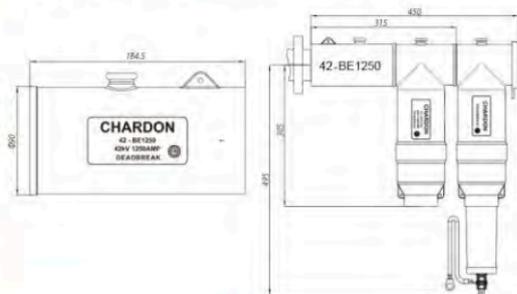
High quality peroxide cured EPDM insulation is mixed and formulated in-house for complete control of rubber characteristics.

INTERFACE C

Interface C design meets EN-5018 Type "C" 630A interface.

DRAIN WIRE TAB

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



ORDERING INFORMATION

42KV Bushing Extender Part Number

42-BE1250

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CÓDIGO

42-DJ1250

BARRAMENTO DE DERIVAÇÃO 42kV-1250A



APPLICATION

The Chardon 42 kV 1250 A Interface C Junction provides three or four interfaces in an EPDM insulated rubber body. Interface C Junctions are used in pad-mounted apparatus, underground vaults, and other installations to connect equipment and cable on primary feeder and network circuits.

Chardon connectors feature bolted connections that can be easily connected and disconnected. When mated with a comparably rated product, the junction provides a fully shielded, submersible connection. The interface C Junction is available with stainless steel "U" straps for direct wall mounting.

PRODUCTION TESTS

Tests conducted in accordance with BS HD 629.1

- ! Minimum corona voltage level – 42 kV ≤ 10pC
- ! AC 5 Minute Withstand – 93.5 kV

Tests conducted in accordance with Chardon manufacturing process requirements:

- ! Physical Inspection
- ! Periodic Dissection
- ! Periodic Fluoroscopic Analysis

PRODUCT RATINGS

| | |
|---|--------------|
| Maximum Voltage Class (kV) | 42 kV |
| AC 5 Minute Withstand | 93.5 kV |
| Minimum Corona Voltage Level | 42 kV < 10pC |
| BL and Full Wave Crest (Impulse) | 200 kV |
| Thermal Short Circuit (Conductor, 3 sec.) | 45 kV |
| Dynamic Short Circuit | 100 kA |
| Continuous Current | 1250 A |

• Revision date: 03/01/2024

ORDERING INFORMATION

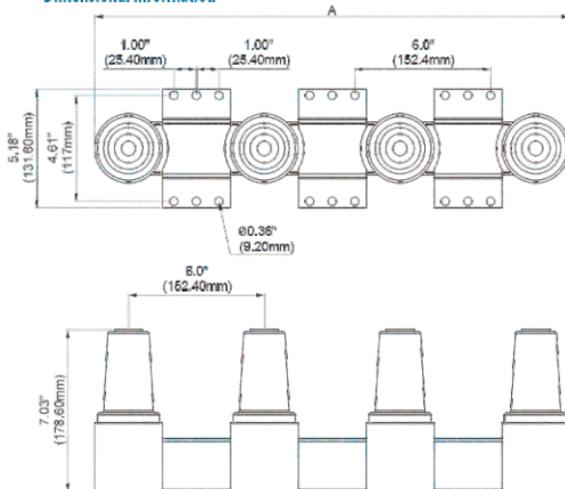
Each kit Contains:

- ! Interface C Junction (with straps, depending on product ordered)
- ! Shipping Caps (not for energized operation)
- ! Silicone Grease
- ! Installation Instruction Sheet

Interface C Junction Part Numbers

| Description | Junction Only | Junction with U-Straps |
|--------------------------------|---------------|------------------------|
| 42kV 1250A Interface C- 2 way | 42-DJ1250F2 | 42-DJ1250F2U |
| 42kV, 1250A Interface C- 3 way | 42-DJ1250F3 | 42-DJ1250F3U |
| 42kV, 1250A Interface C- 4 way | 42-DJ1250F4 | 42-DJ1250F4U |

Dimensional Information



| Number of Interfaces | Physical Dimensions in. / mm |
|----------------------|------------------------------|
| | A |
| 2-way | 9.0 [228.6] |
| 3-way | 15.0 [381.0] |
| 4-way | 21.0 [533.4] |

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CÓDIGO **42-FDT630 / 42-RDT630**

TERMINAL DESCONECTÁVEL 42kV-630A



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 42kV applications.

KEY FEATURES

- Provides a fully shielded and submersible connection when mated with the proper bushing or plug.
- Type "C" 630A Interface.

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.

- Mounting can be vertical, horizontal, or any angle in between.
- No minimum phase clearance requirements.
- 100% electrically tested at factory.

PRODUCT RATINGS

| | |
|--|---------------|
| Maximum Voltage Class (U _m) | 42 kV |
| AC 5 Minute Withstand | 117 kV |
| DC 15 Minute Voltage Withstand | 125 kV |
| Minimum Corona Voltage Level | 45 kV < 10 pC |
| BIL and Full Wave Crest (Impulse) | 200 kV |
| Thermal Short Circuit (Conductor, 2 sec twice) | 24.1 kA |
| Dynamic Short Circuit (Conductor, 10ms) | 85.2 kA |
| Continuous Current | 630 A |

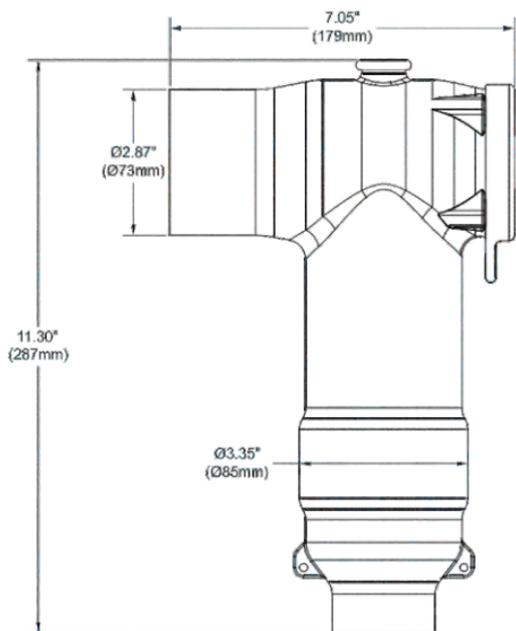
PRODUCTION TESTS

- Tests conducted in accordance with IEC 60502-4.
- Minimum Corona Voltage Level – 45 kV \leq 3pC
 - AC 5 Minute Withstand – 117 kV

DETAILED COMPOSITION OF THE CHARDON 42 KV FRONT T-BODY CONNECTOR



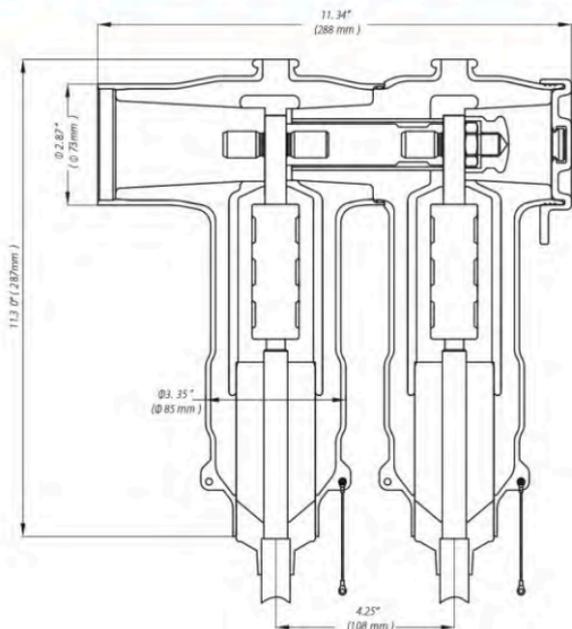
**DETAILED COMPOSITION OF THE CHARDON
42 KV FRONT T-BODY CONNECTOR**



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



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



ORDERING INFORMATION

| | | | | | |
|-----|---------------|------|---------------|---------------|---------------|
| 42- | --- | 630- | --- | --- | --- |
| | STEP 1 | | STEP 2 | STEP 3 | STEP 4 |

STEP 1

Selection of Front / Rear T-body

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

STEP 2

Selection of Cable Insulation Dimension

| Range Code | mm (inch) |
|------------|-----------------------------|
| LA | 15.5 - 19.0 (0.610 - 0.748) |
| LB | 18.0 - 21.0 (0.709 - 0.827) |
| LC | 20.0 - 23.0 (0.787 - 0.905) |
| LD | 22.0 - 25.0 (0.866 - 0.984) |
| LE | 24.0 - 27.0 (0.945 - 1.062) |
| LF | 26.0 - 29.0 (1.024 - 1.142) |
| 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 ²) |
|----------------|-----------------------------------|
| 25 | 25 |
| 35 | 35 |
| 50 | 50 |
| 70 | 70 |
| 95 | 95 |
| 120 | 120 |
| 150 | 150 |
| 185 | 185 |
| 240 | 240 |
| 300 | 300 |
| 400 | 400 |

STEP 4

Selection of Compression Connector Material

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

Ordering Example:

For a CHARDON 42 kV Front T-body with cable insulation outer dimension of 39.0 mm and a conductor size of 185 mm² with copper compression connector, the part number would be as follows.

| | | | | | |
|-----|-----|-----|----|-----|---|
| 42- | FDT | 630 | LK | 185 | C |
|-----|-----|-----|----|-----|---|

If a shear bolt connector is selected in this kit, the part number would be 42-FDT630LK-SBC-B-150-240/2.

| | | | | |
|-----|-----|-----|----|-----------------|
| 42- | FDT | 630 | LK | SBC-B-150-240/2 |
|-----|-----|-----|----|-----------------|

Chardon Shear Bolt Connector

Example:

For a Shear Bolt Connector with a conductor range between 20-50 mm², the part number would be: SBC-B-25-50/1.

| CATALOG NO. | Conductor Range(mm ²) |
|-----------------|-----------------------------------|
| SBC-B-25-50/1 | 25 - 50 |
| SBC-B-70-95/1 | 70 - 95 |
| SBC-B-70-120/2 | 70 - 120 |
| SBC-B-150-240/2 | 150 - 240 |
| SBC-B-300-400/3 | 300 - 400 |



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CÓDIGO **42-FDT1250 / 42-RDT1250**

TERMINAL DESCONECTÁVEL 42kV-1250A



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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 36kV and 42 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, 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" 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 Voltage Class (Us) | 42 kV |
| AC 5 Minute Withstand | 117 kV |
| DC 15 Minute Voltage Withstand | 125 kV |
| Minimum Corona Voltage Level | 45 kV < 10pC |
| BIL and Full Wave Crest (Impulse) | 200 kV |
| Thermal Short Circuit (Conductor, 3 sec.) | 45 kA |
| Dynamic Short Circuit | 100 kA |
| Continuous Current | 1250 A |

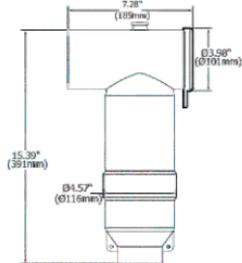
PRODUCTION TESTS

Tests conducted in accordance with IEC 60502-4.

- Minimum Corona Voltage Level – 45 kV ≤ 10pC
- AC 5 Minute Withstand – 117 kV

43FOT1250-42BD1250-010523-REV13

DETAILED COMPOSITION OF THE CHARDON 36 KV AND 42 KV FRONT T-BODY CONNECTOR



DETAILED COMPOSITION OF THE CHARDON 36 KV AND 42 KV COUPLING (REAR) T-BODY CONNECTOR



ORDERING INFORMATION

| | | | | | |
|-----|-------|-------|-------|-------|-------|
| 42- | STEP1 | 1250- | STEP2 | STEP3 | STEP4 |
|-----|-------|-------|-------|-------|-------|

STEP1

Selection of Front / Rear T-body

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

STEP2

Selection of Cable Insulation Dimension

| Code | mm |
|------|---------------|
| D | 19.10 - 25.00 |
| E | 23.60 - 26.40 |
| F | 24.90 - 28.30 |
| G | 26.40 - 29.90 |
| H | 27.60 - 31.50 |
| J | 29.50 - 33.20 |
| K | 31.60 - 34.90 |
| L | 32.60 - 35.40 |
| M | 34.40 - 36.60 |
| N | 37.70 - 40.50 |
| P | 38.90 - 41.70 |
| Q | 40.00 - 42.80 |
| R | 42.30 - 45.30 |
| S | 44.60 - 47.60 |
| T | 46.90 - 49.90 |
| U | 49.20 - 52.20 |
| V | 51.40 - 54.50 |

ORDERING INFORMATION

STEP3

Selection of Conductor Size

| Conductor Code | Conductor Size (mm ²) |
|----------------|-----------------------------------|
| 25 | 25 |
| 35 | 35 |
| 50 | 50 |
| 70 | 70 |
| 95 | 95 |
| 120 | 120 |
| 150 | 150 |
| 185 | 185 |
| 240 | 240 |
| 300 | 300 |
| 400 | 400 |
| 500 | 500 |
| 630 | 630 |

STEP4

Selection of Compression Connector Material

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

ORDERING INFORMATION

Ordering Example:

For a CHARDON 42 kV Front T-body with cable insulation outer dimension of 26.4 mm and a conductor size of 185 mm² with copper compression connector, the part number would be as follows.

| | | | | | |
|-----|-----|------|---|-----|---|
| 42- | FDT | 1250 | E | 185 | C |
|-----|-----|------|---|-----|---|

If a shear bolt connector is selected in this kit, the part number would be as follows:

| | | | | |
|-----|-----|------|---|---------------|
| 42- | FDT | 1250 | E | SBC-B-25-50/1 |
|-----|-----|------|---|---------------|

Chardon Shear Bolt Connector

Example:

For a Shear Bolt Connector with a conductor range between 20-50 mm², the part number would be (SBC-B-25-50/1).

| CATALOG NO. | Conductor Range(mm ²) |
|-----------------|-----------------------------------|
| SBC-B-25-50/1 | 25 - 50 |
| SBC-B-70-95/1 | 70 - 95 |
| SBC-B-70-120/2 | 70 - 120 |
| SBC-B-150-240/2 | 150 - 240 |
| SBC-B-300-400/3 | 300 - 400 |
| SBC-B-500-630/3 | 500 - 630 |



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CÓDIGO

51-RDTA134

TERMINAL DESCONECTÁVEL 51kV/134kV



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APPLICATION

The Chardon T-Body Surge Arrester is an arrester combined within a coupling (rear) T-Body interface. It is designed to protect

apparatus, including transformers, switchgear, and other equipment from high voltage surges due to lightning or switching.

KEY FEATURES

- Provides fully shielded deadfront arrester protection.
- Metal (zinc) Oxide Varistor (MOV) gapless design.
- EPDM insulation rubber molded around MOV module.
- 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 _m) | 51 kV |
| Nominal Discharge Current of Arrester | 5 kA / 10kA |
| Residual Voltage of Nominal Discharge Current | ≤ 134 kV |
| Maximum Continuous Operating Voltage | 40.6 kV |
| Voltage of DC 1mA Current | ≥ 73 kV |

PRODUCTION TESTS

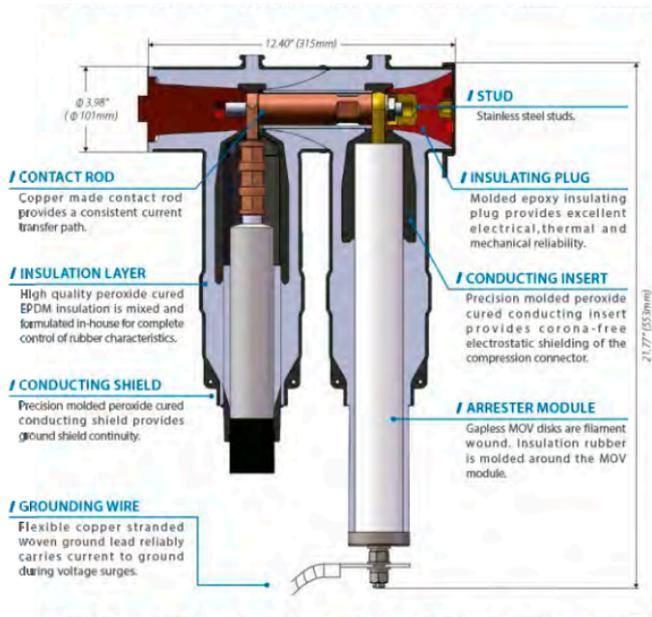
- Tests conducted in accordance with IEC 60099-4.
- Minimum Corona Voltage Level – 43kV < 3pc
 - Voltage of DC 1mA Current – ≥ 73kV

Tests conducted in accordance with Chardon manufacturing process requirements:

- Physical Inspection
- Periodic Dissection
- Periodic X-ray Analysis

• 51-100,134-12041REV03

DETAILED COMPOSITION OF THE CHARDON 54 KV/134 KV FRONT T-BODY SURGE ARRESTER



ORDERING INFORMATION

51kV / 134kV 5kA Coupling (Rear) T-body Surge Arrester

51-RDTA134

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CÓDIGO **72.5-RDTA196**

TERMINAL DESCONECTÁVEL PARA-RAIOS - 72.5/196kV-10kA



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CÓDIGO **72-FDT1250 / 72-RDT1250**

TERMINAL DESCONECTÁVEL 72kV-1250A



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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

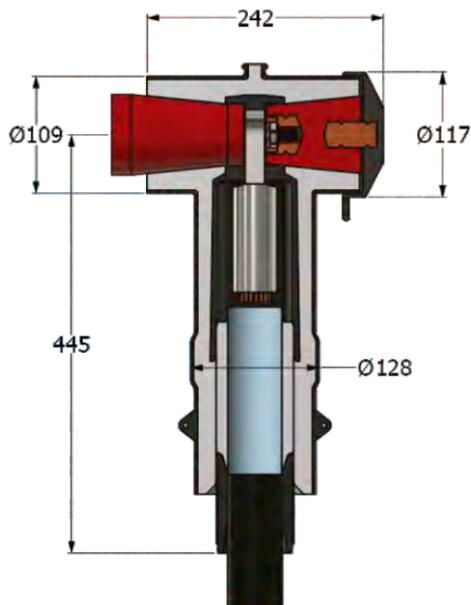
| | |
|--|---|
| Maximum System Voltage | 72.5 kV |
| Rated Voltage U_n | 66 kV |
| Value of U_0 for Determination of Test Voltage | 36 kV |
| Continuous Current Rating | 1250 A |
| Lightning Impulse Withstand Level | 325 kV |
| Partial Discharge Test | 54 BV |
| Heating Cycle Voltage Test 2 U_n | 72 kV |
| AC 60Hz 30 min Withstand | 90 kV |
| Cable Insulation Diameter | 27mm - 70mm |
| Conductor Cross-Section Range | 70mm ² - 4200mm ² |

Tests conducted in accordance with IEC 60840.

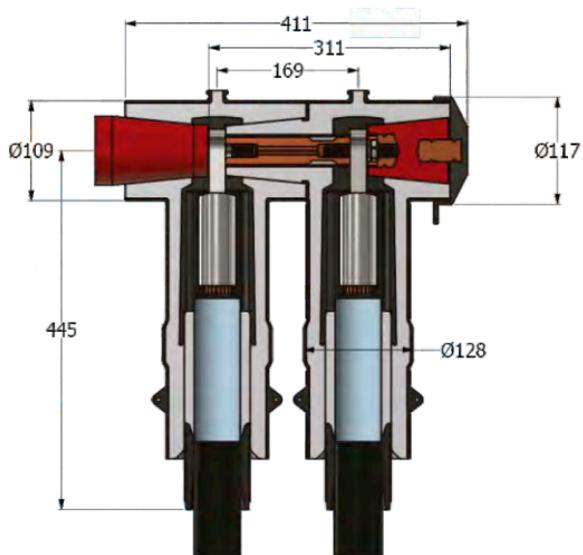
PRODUCTION TESTS

- 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- | STEP 1 | 1250- | 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 - 68.00 |

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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- 24-FDT630 / 24-RDT630
- 36-FDT630 / 36-RDT630
- 24/36-LFDT1250 / 24/36-LRDT1250

CÓDIGO

TERMINAL DESCONECTÁVEL 24/36kV-1250A



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APPLICATION

The Chardon T-Body Connectors are designed to integrate polymeric cables into dead front apparatus such as transformers, switchgear, and other critical equipment, meeting the electrical standards set by IEC 60502 & HD 629. Suitable for both indoor and outdoor applications, these connectors comply with the interface

requirements of EN 50180 and are compatible with all polymeric cable types and conductors made of either copper or aluminum. With an operational voltage capacity of up to 36 kV, these connectors are equipped with high-performance adapters that allow for an extensive range of compatibility with various cable sizes.

KEY FEATURES

- Provides a fully shielded and submersible connection when mated with proper bushings or plugs.
- Advanced adapter with optimized electrical stress dispersion for a wide range of cable sizes.
- Adheres to EN 50180 Interface C standard.

- Mounting can be vertical, horizontal, or any angle in between.
- No minimum phase clearance requirements.
- 100% electrical tested at factory.

PRODUCT RATINGS

| | 24-FDT630 24-RDT630 | 36-FDT630 36-RDT630 | 24/36-LFDT1250 24/36-LRDT1250 |
|--|------------------------|------------------------|----------------------------------|
| Maximum Voltage Class (U _m) | 24 kV | 36 kV | 36 kV |
| AC 5 Minute Withstand | 54 kV | 81 kV | 81 kV |
| Minimum Corona Voltage Level | 20 kV < 10pC | 30 kV < 10pC | 30 kV < 10pC |
| BIL and Full Wave Crest (Impulse) | 125 kV | 170 kV | 170 kV |
| Thermal Short Circuit (Conductor, 2 sec.) | 23 kA / 2s | 23 kA / 2s | 23 kA / 2s |
| Dynamic Short Circuit (Conductor, 10 sec.) | 82 kA / 10ms | 82 kA / 10ms | 82 kA / 10ms |
| Continuous Current | 630 A | 630 A | 1250 A |

PRODUCTION TESTS

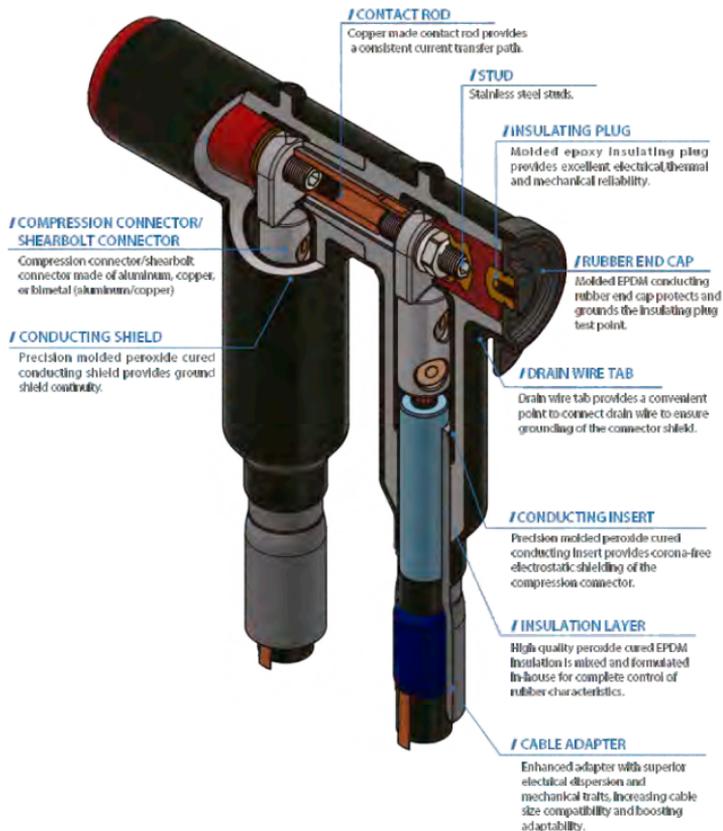
Routine tests conducted in accordance with IEC 60502-4:

- Minimum Corona Voltage Level
- AC 5 Minute Withstand

Tests conducted in accordance with Chardon manufacturing process requirements:

- Physical Inspection
- Periodic Dissection
- Periodic X-ray Analysis

SECTIONAL VIEW OF THE CHARDON FRONT & REAR T-BODY CONNECTOR



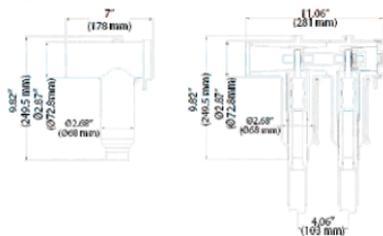


Fig.1:
24-FDT630
24-RDT630

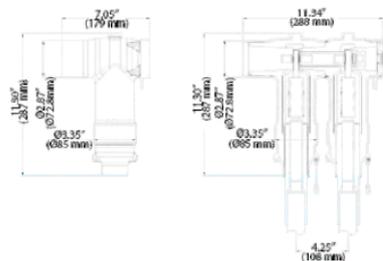


Fig.2:
36-FDT630
36-RDT630

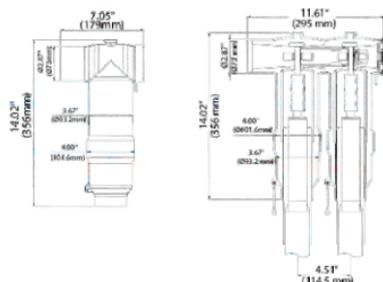


Fig.3:
24/36-LFDT1250
24/36-LRDT1250

ORDERING INSTRUCTIONS

STEP 1: Voltage & Current Class

Select the required voltage and current class for your cable application.

STEP 2: T-Body Type

Decide on the T-Body configuration needed: Front T-Body (FDT) or Rear T-Body (RDT).

STEP 3: Cable Adapter Code

Identify the cable insulation outer diameter to determine the appropriate cable adapter code.

| Voltage & Current | Front or Rear T-Body | Cable Insulation Outer Diameter (mm) | Cable Adapter Code | Compatible Cable Cross Section (mm ²) | | |
|-------------------|---|--------------------------------------|--------------------|---|-------------------|-------------------|
| | | | | 12 kV Cable Class | 24 kV Cable Class | 36 kV Cable Class |
| 24 kV, 630A | 24-FDT630 (Front) 24-RDT630 (Rear) | 12.5 – 19.5 | A1 | 25 – 95 | X | X |
| | | 17.0 – 25.1 | A2 | X | 25 – 95 | X |
| | | 19.0 – 29.0 | B1 | 95 – 300 | X | X |
| | | 23.6 – 34.6 | B2 | X | 95 – 300 | X |
| 36 kV, 630A | 36-FDT630 (Front) 36-RDT630 (Rear) | 21.0 – 30.0 | A3 | X | X | 25 – 95 |
| | | 27.3 – 38.5 | B3 | X | X | 95 – 300 |
| | | 30.0 – 38.5 | C1 | 400 – 630 | X | X |
| 24 & 36 kV, 1250A | 24/36-LFDT1250 (Front) 24/36-LRDT1250 (Rear) | 34.0 – 45.0 | C2 | X | 400 – 630 | X |
| | | 38.5 – 50.0 | D1/C3 | 800 – 1000 | X | 400 – 630 |
| | | 44.0 – 56.0 | E1/D2 | 1000 – 1200 | 800 – 1000 | X |
| | | 51.4 – 58.5 | E2/D3 | X | 1000 – 1200 | 800 |

*Note: The compatible cable cross-section range is provided for reference purposes only. Please check the actual dimensions of your cable to ensure proper selection of the shear bolt lug cross-section range.

STEP 4: Shear Bolt Lug

Determine the cable conductor cross section to select the suitable shear bolt lug size.

| Shear Bolt Lug Code | Cable Conductor Cross-Section (mm ²) | Note |
|---------------------|--|---------------------------|
| SBC-B-25-120/1L | 25-120 | Suitable for 630A T-body |
| SBC-B-95-300/2L | 95-300 | Suitable for 630A T-body |
| SBC-LB-400-630/4L | 400-630 | Suitable for 1250A T-body |

Part Number Ordering Example:

For a Chardon 36 kV Front T-body with cable insulation outer diameter of 28 mm and a conductor size of 95 mm² with shear bolt connector the part number would be as follows:

| | | | |
|-----|--------|----|-----------------|
| 36- | FDT630 | A3 | SBC-B-25-120/1L |
|-----|--------|----|-----------------|

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CÓDIGO

VTR

HASTE PARA TESTE DE TENSÃO - VTR



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APPLICATION

Medium voltage test rods are designed to accurately find cable fault location, phase checking and cable testing. When installed at the back of a T-body or elbow connector, test rods can monitor the electrical condition of

both the separable connector and the power system it is attached to. Connections can be made with a cable lug, spring clips or 4mm plug.

VOLTAGE RATINGS

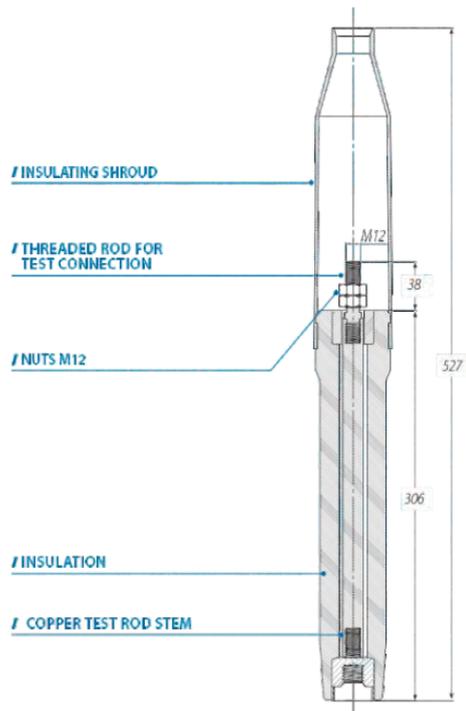
| | |
|---|-------|
| Test Rod Type | VTR |
| Maximum A.C. Test Voltage (50 Hz-1min) | 36 kV |
| Maximum D.C. Test Voltage (R x U ₀ -30min) | 96 kV |
| Impulse Voltage (1.2 x 50µs) min | 95 kV |

ORDERING INFORMATION

Interface C Voltage Test Rod

VTR

DETAILED COMPOSITION OF THE CHARDON INTERFACE C VOLTAGE TEST ROD



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