

Chardon 15kV, 25kV and 35kV Class Cold Shrinkable Termination



APPLICATION

The Chardon Outdoor Cold Shrinkable Terminations deliver effortless installation and consistent, trustworthy performance when terminating medium voltage cables in challenging outdoor settings. These outdoor terminations are constructed from high-quality silicone rubber, with a UV-resistant characteristic that helps them withstand harsh outdoor environmental conditions, including UV radiation and varying weather patterns.

Chardon Outdoor Cold Shrinkable Terminations include a stress-controlling compound housing,

conveniently pre-assembled on a plastic "hold-out" tube. Upon removal of the hold-out tube, the stress relief housing contracts onto the cable, securing a reliable and firm connection. The terminations are user-friendly and versatile, with no need for tools or heat sources during installation.

Chardon Cold Shrink Terminations are built to endure for the entire life of the cable, designed to withstand voltages up to 35 kV, and tested according to IEEE Standard 48.

VOLTAGE RATINGS: 15-CSTO

Voltage Class	15 kV
Minimum Partial Discharge Voltage Level	13 kV@ < 5.0pC
AC Voltage 1 Min Dry Withstand	50 kV
AC Voltage 10s Wet Withstand	45 kV
Lightning Impulse (BIL) Voltage Withstand	110 kV
Cyclic Aging	26 kV / 30day
AC Voltage 5h Dry Withstand	31 kV
DC Voltages 15 Min Dry Withstand	75 kV

VOLTAGE RATINGS: 25-CSTO

Voltage Class	25 kV
Minimum Partial Discharge Voltage Level	22 kV@ < 5.0pC
AC Voltage 1 Min Dry Withstand	65 kV
AC Voltage 10s Wet Withstand	60 kV
Lightning Impulse (BIL) Voltage Withstand	150 kV
Cyclic Aging	43 kV / 30day
AC Voltage 5h Dry Withstand	50 kV
DC Voltages 15 Min Dry Withstand	105 kV

•Revision Date: 09-18-2023

VOLTAGE RATINGS: 35-CSTO

Voltage Class	35 kV
Minimum Partial Discharge Voltage Level	30 kV@ < 5.0pC
AC Voltage 1 Min Dry Withstand	90 kV
AC Voltage 10s Wet Withstand	80 kV
Lightning Impulse (BIL) Voltage Withstand	200 kV
Cyclic Aging	61 kV / 30day
AC Voltage 5h Dry Withstand	71 kV
DC Voltages 15 Min Dry Withstand	140 kV

ORDERING INFORMATION



Three-Core Kit Contents:

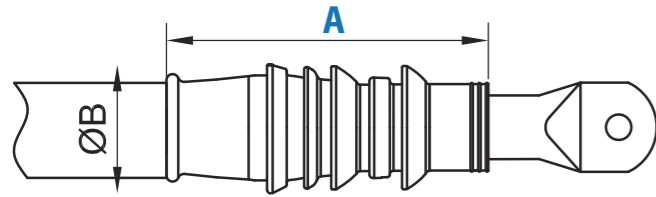
- / Termination body
- / Cold Shrinkable Tube
- / Cold Shrinkable Breakout
- / Sealing Tape
- / Filling Tape
- / PVC Tape
- / Silicone Tape
- / Sandpaper
- / Paper Towel
- / Silicone Lubricant
- / Gloves
- / Triangle Cone
- / Constant-Force Spring
- / Grounding Braid
- / Copper Tape
- / Cable Lug (Optional)
- / Installation Instructions
- / Packing List



Single Core Kit Contents:

- / Termination body
- / Cold Shrinkable Jacket Seal (35-CSTO only)
- / Sealing Tape
- / PVC Tape
- / Silicone Tape
- / Sandpaper
- / Paper Towel
- / Silicone Lubricant
- / Gloves
- / Grounding Kit (Optional)
- / Cable Lug (Optional)
- / Installation Instructions
- / Packing List

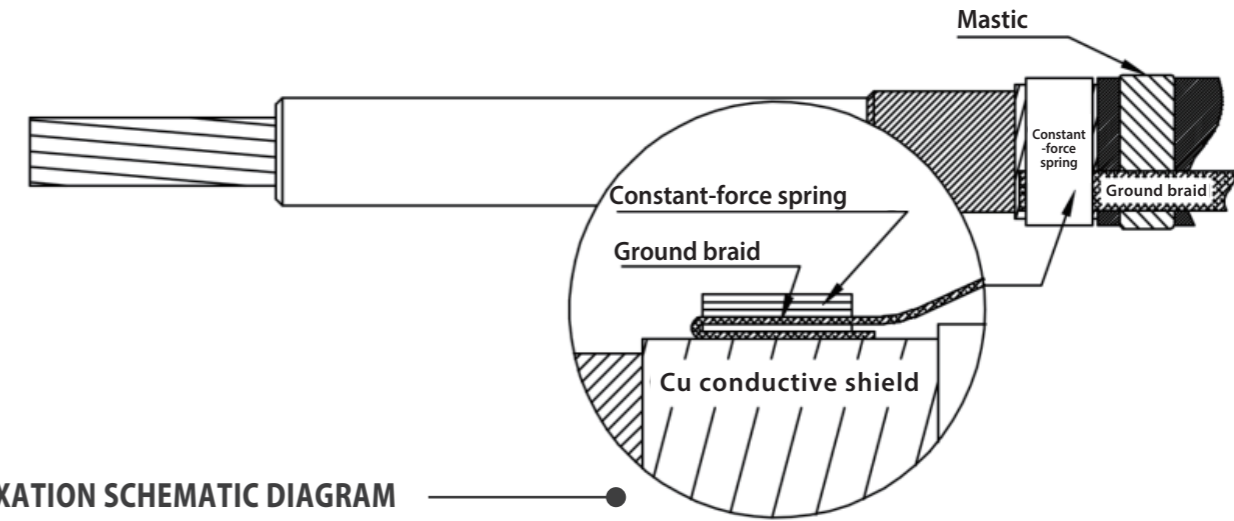
Termination Selection:



Unit: mm (milli meter)

Part Number		Creepage Distance (mm)	Shades (Qty)	Dimension (A)(Max.)(mm) Single/Three Core	Dimension (ØB)	Cable Insulation O.D.Range (mm)
Single Core*	Three Core					
15-CSTO-A	T-15-CSTO-A	510	5	300/290	67	13.2-17.0
15-CSTO-B	T-15-CSTO-B	510	5	300/290	71	16.8-27.0
15-CSTO-C	T-15-CSTO-C	510	5	300/290	79	25.3-50.0
25-CSTO-A	T-25-CSTO-A	672	6	380/370	81	15.2-22.4
25-CSTO-B	T-25-CSTO-B	672	6	380/370	85	20.4-35.4
25-CSTO-C	T-25-CSTO-C	672	6	380/370	100	34.0-60.0
35-CSTO-A	T-35-CSTO-A	930	10	470/470	87	18.7-26.0
35-CSTO-B	T-35-CSTO-B	930	10	470/470	94	24.9-41.1
35-CSTO-C	T-35-CSTO-C	930	10	470/470	105	36.6-59.0

*Each single core termination part can be assembled with one grounding kit if needed. To order a grounding kit, add "GKT" in the end of the Chardon CSTO part number.
Example: 25-CSTO-A-GKT



FIXATION SCHEMATIC DIAGRAM

Each kit Contains:

- / Ground Braid
- / Constant Force Spring
- / Copper Tape

Important:

The Cold Shrink Terminations are suitable for use with metallic screen cables made of copper tape or copper wire, and armor cables made of steel tape or steel wire.

If your cable is different from the above types, please contact your local distributor or Chardon representative.

Selection of Shear Bolt Connector, if requested:

Part Number	Conductor Range(mm ²)
SBC-A-25-95-12/1-AL	25-95
SBC-A-25-95-16/1-AL	25-95
SBC-A-35-150-12/1-AL	35-150
SBC-A-35-150-16/1-AL	35-150
SBC-A-35-150-12/2-AL	35-150
SBC-A-35-150-16/2-AL	35-150
SBC-A-70-240-12/2-AL	70-240
SBC-A-70-240-16/2-AL	70-240
SBC-A-120-300-12/2-AL	120-300
SBC-A-120-300-16/2-AL	120-300
SBC-A-185-400-12/3-AL	185-400
SBC-A-185-400-16/3-AL	185-400
SBC-A-300-630-12/3-AL	300-630
SBC-A-300-630-16/3-AL	300-630
SBC-A-300-630-20/3-AL	300-630

Selection of Compression Lug, if requested*:

Part Number	Lug Material	Conductor Size(mm ²)
CC-16-8	Copper	16mm ²
CC-25-8	Copper	25mm ²
CC-35-10	Copper	35mm ²
CC-50-10	Copper	50mm ²
CC-70-12	Copper	70mm ²
CC-95-12	Copper	95mm ²
CC-120-14	Copper	120mm ²
CC-150-14	Copper	150mm ²
CC-185-16	Copper	185mm ²
CC-240-16	Copper	240mm ²
CC-300-20	Copper	300mm ²
CC-400-20	Copper	400mm ²
AL-16-8	Aluminum	16mm ²
AL-16-10	Aluminum	16mm ²
AL-25-8	Aluminum	25mm ²
AL-25-10	Aluminum	25mm ²
AL-35-8	Aluminum	35mm ²
AL-35-10	Aluminum	35mm ²
AL-50-10	Aluminum	50mm ²
AL-50-12	Aluminum	50mm ²
AL-70-10	Aluminum	70mm ²
AL-70-12	Aluminum	70mm ²
AL-95-8	Aluminum	95mm ²
AL-95-10	Aluminum	95mm ²
AL-95-12	Aluminum	95mm ²
AL-120-10	Aluminum	120mm ²
AL-120-12	Aluminum	120mm ²
AL-120-16	Aluminum	120mm ²
AL-150-10	Aluminum	150mm ²
AL-150-12	Aluminum	150mm ²
AL-150-16	Aluminum	150mm ²
AL-185-12	Aluminum	185mm ²
AL-185-16	Aluminum	185mm ²
AL-240-12	Aluminum	240mm ²
AL-240-16	Aluminum	240mm ²
AL-300-12	Aluminum	300mm ²
AL-300-16	Aluminum	300mm ²
AL-400-16	Aluminum	400mm ²
AL-500-16	Aluminum	500mm ²

*NOTE: For a more accurate size selection, please specify your cable size and type when placing an order.