

- 17-CSTO
- 24-CSTO
- 36-CSTO
- 42-CSTO

**IEC Standard  
Outdoor Cold Shrink Termination  
up to 42 kV**



## 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 42 kV, and tested in accordance to GB/T 12706.4 and IEC 60502.4 standards.

## VOLTAGE RATINGS

Voltage ratings according to GB/T 12706.4 & IEC 60502.4 standards:

Ratings	17-CSTO	24-CSTO	36-CSTO	42-CSTO
<b>Voltage Class</b>	8.7/15(17.5)kV	12/20(24)kV	18/30(36)kV	26/35(40.5)kV
<b>AC Withstand (5 minutes)</b>	39kV	54 kV	81 kV	117 kV
<b>DC Withstand (15 minutes)</b>	35kV	48 kV	72 kV	104 kV
<b>Partial discharge</b>	15kV@<10pC	20kV@<10pC	30kV@<10pC	45kV@<10pC
<b>BIL and Full Wave Crest (Impulse)</b>	95kV	125 kV	170 kV	200 kV

## ORDERING INFORMATION: KIT COMPONENTS

Single Core Kit



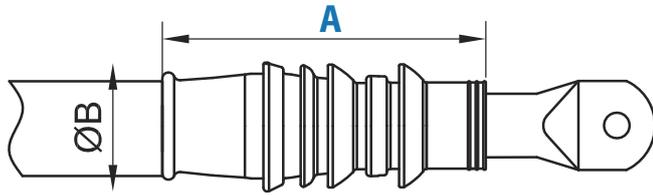
Three Core Kit



CSTO Kit Components	Single Core Kit	Three Core Kit
Termination Body	✓	✓
Cold Shrinkable Tube	X	✓
Cold Shrinkable Breakout	X	✓
Cold Shrinkable Jacket Seal	35-CSTO only	X
Sealing Tape	✓	✓
Filling Tape	X	✓
PVC Tape	✓	✓
Silicone Tape	✓	✓
Sandpaper	✓	✓
Paper Towel	✓	✓
Silicone Lubricant	✓	✓
Gloves	✓	✓
Triangle Cone	X	✓
Constant-Force Spring	✓	✓
Grounding Braid	✓	✓
Copper Tape	✓	✓
Cable Lug	Optional	Optional
Installation Instructions Sheet	✓	✓
Packing List	✓	✓

## ORDERING INFORMATION: PART NUMBERS & DIMENSIONS

### Termination Selection:



A: Maximum length of termination after installation.  
B: Shade outer diameter

Part Number		Creepage Distance (mm)	Shade (QTY)	Dimension (A)(Max.)(mm) Single/Three Core	Dimension (ΦB) (mm)	Cable Insulation O.D. Range (mm)
Single Core Cable	Three Core Cable					
17-CSTO-A-GKT	T-17-CSTO-A	510	5	300/290	67	13.2-17.0
17-CSTO-B-GKT	T-17-CSTO-B	510	5	300/290	71	16.8-27.0
17-CSTO-C-GKT	T-17-CSTO-C	510	5	300/290	79	25.3-50.0
24-CSTO-A-GKT	T-24-CSTO-A	672	6	380/370	81	15.2-22.4
24-CSTO-B-GKT	T-24-CSTO-B	672	6	380/370	85	20.4-35.4
24-CSTO-C-GKT	T-24-CSTO-C	672	6	380/370	100	34.0-60.0
36-CSTO-A-GKT	T-36-CSTO-A	672	6	380/370	81	15.2-22.4
36-CSTO-B-GKT	T-36-CSTO-B	672	6	380/370	85	20.4-35.4
36-CSTO-C-GKT	T-36-CSTO-C	672	6	380/370	100	34.0-60.0
42-CSTO-A-GKT	T-42-CSTO-A	930	10	470/470	87	18.7-26.0
42-CSTO-B-GKT	T-42-CSTO-B	930	10	470/470	94	24.9-41.1
42-CSTO-C-GKT	T-42-CSTO-C	930	10	470/470	105	36.6-59.0

### 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.

## ORDERING INFORMATION: LUGS SELECTION

### Selection of Shear Bolt Connector, if requested:

Part Number	Conductor Range (mm <sup>2</sup> )
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 Connector, if requested:

Part Number	Lug Material	Conductor Size (mm <sup>2</sup> )
CTCC-16-8	Copper	16
CTCC-25-8	Copper	25
CTCC-35-10	Copper	35
CTCC-50-10	Copper	50
CTCC-70-12	Copper	70
CTCC-95-12	Copper	95
CTCC-120-14	Copper	120
CTCC-150-14	Copper	150
CTCC-185-16	Copper	185
CTCC-240-16	Copper	240
CTCC-300-20	Copper	300
CTCC-400-20	Copper	400
CTAL-16-8	Aluminum	16
CTAL-16-10	Aluminum	16
CTAL-25-8	Aluminum	25
CTAL-25-10	Aluminum	25
CTAL-35-8	Aluminum	35
CTAL-35-10	Aluminum	35
CTAL-50-10	Aluminum	50
CTAL-50-12	Aluminum	50
CTAL-70-10	Aluminum	70
CTAL-70-12	Aluminum	70
CTAL-95-8	Aluminum	95
CTAL-95-10	Aluminum	95
CTAL-95-12	Aluminum	95
CTAL-120-10	Aluminum	120
CTAL-120-12	Aluminum	120
CTAL-120-16	Aluminum	120
CTAL-150-10	Aluminum	150
CTAL-150-12	Aluminum	150
CTAL-150-16	Aluminum	150
CTAL-185-12	Aluminum	185
CTAL-185-16	Aluminum	185
CTAL-240-12	Aluminum	240
CTAL-240-16	Aluminum	240
CTAL-300-12	Aluminum	300
CTAL-300-16	Aluminum	300
CTAL-400-16	Aluminum	400
CTAL-500-16	Aluminum	500

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



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