



RCST-(7-36)

Cable Terminations for 1/3 core cables from 7kV to 36kV

REPL range of Cold Shrinkable Terminations are suitable for installations on medium voltage cables with polymeric insulation up to 36kV.

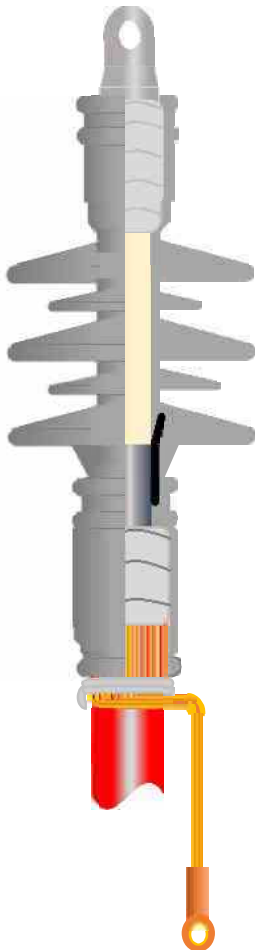
The termination is a one piece moulded design with an outer layer of highly track resistant silicone rubber and integrated conductive geometric stress cone.

The termination bodies are pre-expanded onto a spiral former providing a suitable diameter to allow easy locating over cables and lugs. Once correctly located the body is collapsed by simply pulling out the spiral tape.

After installation, the termination provides a reliable, void free and flexible termination suitable for both indoor and outdoor environments.

Because the RCST requires no special tools or heat source for installation, it is ideal for areas where heat tools are not allowed or accessible.

There is a range of bodies in various lengths and moulded shed arrangements to cover indoor and outdoor terminations from 7.2kV to 36kV in single core and three core designs



Moulded body with integrated creepage sheds



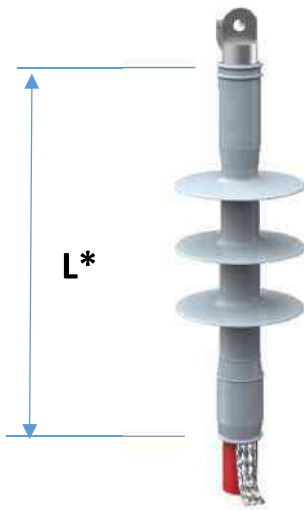
Moulded body without creepage sheds for indoor dry box

Technical Details for RCST Cold Shrinkable Cable Termination System

Voltage Class:	7.2kV	12kV	17.5kV	24kV	36kV
Cross Section Range (mm ²)	25 - 630	25 - 1000	35 - 1000	35 - 1000	50 - 1000
Cable Insulation Diameter (mm)	13 - 36	15 - 46	17 - 48	18 - 50	24 - 55
Voltage Rating U ₀ /U (U _m) kV	3.8/6.6 (7.2)	6.35/11 (12)	8.7/15 (17.5)	12.7/22 (24)	19/33 (36)
Basic Impulse Level (BIL) kV	60	95	95	125	194
Partial Discharge at 1.73U ⁰ (pC)	<10	<10	<10	<10	<10
AC Voltage Withstand , 1 min (kV)	>15	>25.5	>35	>51	>76
AC Voltage Withstand , 5 min (kV)	>17	>28.5	>39	>57	>85.5
DC Voltage Withstand , 15min (kV)	>23	>38	>52	>76	>114



RCST-(7-36)X-1



Cable Terminations for 1 core cables from 6kV to 36kV

- Tested to **CENELEC HD 629.1.S2**
- Quick and easy installation using no heat source or tools
- One piece design with integrated stress control
- Silicon Rubber material for excellent electrical insulation and weathering properties
- Can be combined with gland or earth kit for armoured cables

	Conductor Cross Section (See Note 1) (mm ²)	Insulation Diameter Range Ø mm	Maximum overall diameter of cable sheath Ø mm	Product Code Single Core INDOOR Termination	Tail Length L mm	Product Code Single Core OUTDOOR Termination	Tail Length L mm
7.2 kV	Cold Shrinkable Termination for Polymeric Insulated single core cables rated at Um= 7.2kV						
	95 - 150	17 - 24	30	RCSTI 7X 95-150-1	320	RCSTO 7X 95-150-1	370
	185 - 300	19 - 32	42	RCSTI 7X 185-400-1	320	RCSTO 7X 185-400-1	370
12 kV	400 - 630	30 - 42	65	RCSTI 7X 500-630-1	320	RCSTO 7X 500-630-1	370
	Cold Shrinkable Termination for Polymeric Insulated single core cables rated at Um= 12kV						
	50 - 95	17 - 24	30	RCSTI 12X 50-95-1	320	RCSTO 12X 50-95-1	370
17.5 kV	95 - 300	19 - 32	42	RCSTI 12X 95-300-1	320	RCSTO 12X 95-300-1	370
	400 - 800	30 - 42	65	RCSTI 12X 400-800-1	320	RCSTO 12X 400-800-1	370
	Cold Shrinkable Termination for Polymeric Insulated single core cables rated at Um= 17.5kV						
24 kV	35 - 95	17 - 24	30	RCSTI 17X 35-95-1	320	RCSTO 17X 35-95-1	370
	120 - 240	19 - 32	42	RCSTI 17X 120-240-1	320	RCSTO 17X 120-240-1	370
	300 - 630	30 - 42	65	RCSTI 17X 300-630-1	320	RCSTO 17X 300-630-1	370
36 kV	Cold Shrinkable Termination for Polymeric Insulated single core cables rated at Um= 24kV						
		17 - 24	30		350		370
		19 - 32	42		350		370
	Cold Shrinkable Termination for Polymeric Insulated single core cables rated at Um= 36kV						
	50 - 120	19 - 32	42	RCSTI 36X 50-120-1	370	RCSTO 36X 50-120-1	500
	150 - 400	30 - 42	65	RCSTI 36X 150-400-1	370	RCSTO 36X 150-400-1	500
	500 - 1000	40 - 60	78	RCSTI 36X 500-1000-1	370	RCSTO 36X 500-1000-1	500

*Tail length is linear length of termination body at fully recovered state.

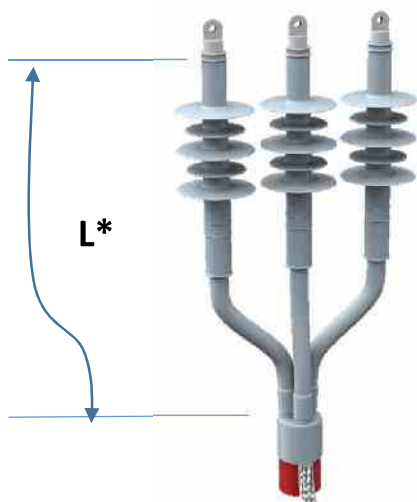
The creepage length on outdoor termination is dictated by number of sheds and normally represents >31mm /kV ⇔ Class IV very Heavy according to IEC 60071-2

Note 1 = Cross section is a guide only based on standard IEC designs- the cable insulation diameter is more critical dimension to ensure body fits the cable to be terminated.

For cables with tape screen and armour, additional earth kits are required.



RCST-(7-36)X-3



Cable Terminations for 3 core cables from 7kV to 36kV

- Utilising Cold Shrinkable termination body combines with additional Cold Shrinkable tubing and breakout
- Adjustable tail length
- All cold installation
- Can be combined with gland or earth kit for armoured cables

	Conductor Cross Section (See Note 1)	Insulation Diameter Range	Maximum overall diameter of cable sheath	Product Code Three Core	Tail Length	Product Code Three Core	Tail Length
				INDOOR		OUTDOOR	
	(mm²)	Ø mm	Ø mm	Termination	L mm	Termination	L mm
7.2 kV	Cold Shrinkable Termination for Polymeric Insulated single core cables rated at Um= 7. kV						
	95 - 150	17 - 24	30	RCSTI 7X 95-150-3	450	RCSTO 7X 95-150-3	600
	185 - 300	19 - 32	42	RCSTI 7X 185-400-3	450	RCSTO 7X 185-400-3	600
	400 - 630	30 - 42	65	RCSTI 7X 500-630-3	450	RCSTO 7X 500-630-3	600
12 kV	Cold Shrinkable Termination for Polymeric Insulated single core cables rated at Um= 12kV						
	50 - 95	17 - 24	30	RCSTI 12X 50-95-3	600	RCSTO 12X 50-95-3	600
	95 - 300	19 - 32	42	RCSTI 12X 95-300-3	600	RCSTO 12X 95-300-3	600
	400 - 630	30 - 42	65	RCSTI 12X 400-630-3	600	RCSTO 12X 400-630-3	600
17.5 kV	Cold Shrinkable Termination for Polymeric Insulated single core cables rated at Um= 17.5kV						
	35 - 95	17 - 24	30	RCSTI 17X 35-95-3	600	RCSTO 17X 35-95-3	600
	120 - 240	19 - 32	42	RCSTI 17X 120-240-3	600	RCSTO 17X 120-240-3	600
	300 - 630	30 - 42	65	RCSTI 17X 300-630-3	600	RCSTO 17X 300-630-3	600
24 kV	Cold Shrinkable Termination for Polymeric Insulated single core cables rated at Um= 24kV						
		17 - 24	30		600		750
		19 - 32	42		600		750
		30 - 42	65		600		750
36 kV	Cold Shrinkable Termination for Polymeric Insulated single core cables rated at Um= 36kV						
	50 - 120	19 - 32	42	RCSTI 36X 50-120-3	600	RCSTO 36X 50-120-3	800
	150 - 400	30 - 42	65	RCSTI 36X 150-400-3	600	RCSTO 36X 150-400-3	800
	500 - 630	40 - 60	78	RCSTI 36X 500-630-3	600	RCSTO 36X 500-630-3	800

Tail length is linear length of termination body at fully recovered state.

The creepage length on outdoor termination is dictated by number of sheds and normally represents >31mm /kV ⇔ Class IV very Heavy according to IEC 60071-2

Note 1 = Cross section is a guide only based on standard IEC designs- the cable insulation diameter is more critical dimension to ensure body fits the cable to be terminated.

For cables with tape screen and armour, additional earth kits are required.