

RCST

REPL range of Cold Shrink Terminations are suitable for installations on medium voltage extruded insulated cables (e.g. XLPE, EPR, PE...) up to 36kV.

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

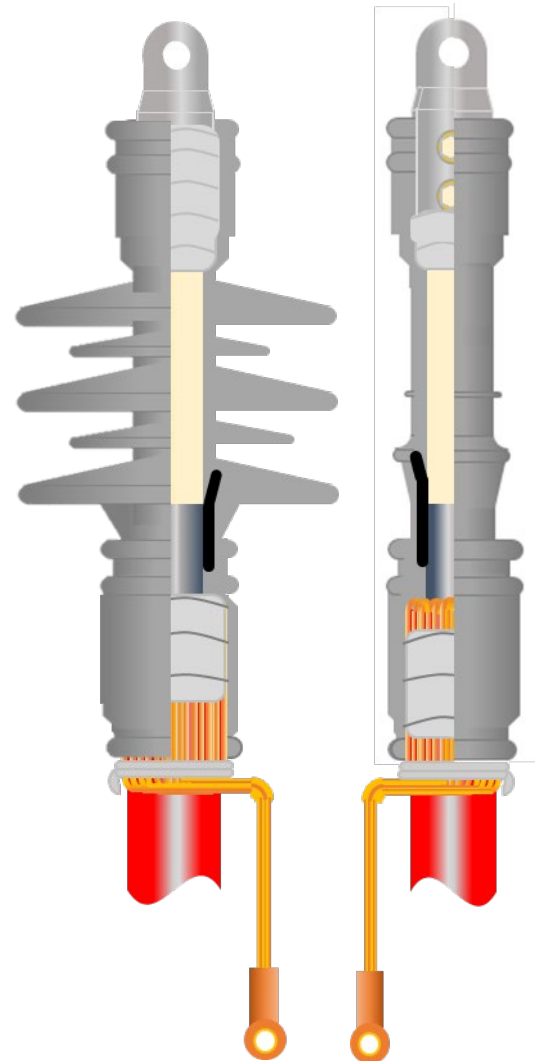
After installation, the termination provides a reliable, void free and flexible termination suitable for both indoor and outdoor environments.

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 to cover cables from 7.2kV to 36kV in single core and three core designs.

Kits can be tailored to suit all common metallic screen and armour configurations.




- 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
- Moulded sheds to extend creepage path for outdoor and highly polluted/coastal areas
- Suitable for a wide range of mechanical and compression cable lugs
- Standard Colour : Light Grey
- Long shelf life under normal storage conditions
- Range of bodies available for cables from 7.2kV to 36kV in single core / three cores



TECHNICAL DETAILS					
Voltage Class >	7.2kV	12kV	17.5kV	24kV	36kV
Cross Section Range (mm ²)	35-1000	35-1000	35-1000	35-1000	50-800
Cable Insulation Diameter (mm)	17-50	17-50	17-50	17-50	20-50
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 2U 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

Please see overleaf for details of the range and kit options

Cold Shrink Termination Size Details:

RCSJ Selection		Overall Length	Creepage Distance	Insulation Diameter Range	Maximum Lug Barrel Diameter	Typical Application Range *based on IEC Cable Design (mm ²)				
Code	Application	mm	ømm	ømm	mm	12kV	17.5kV	24kV	36kV	
	4012-320	Indoor up to 17.5kV	320	340	17-22	28	70-150	50-95	N/A	N/A
	5014-320	Indoor up to 17.5kV	320	340	19-28	33	95-300	120-240	N/A	N/A
	7521-320	Indoor up to 17.5kV	320	340	29-39	45	400-800	300-630	N/A	N/A
	5014-350	Indoor up to 24kV Outdoor up to 12kV	350	430	19-28	33	95-300	120-240	70-150	N/A
	4012-370	Indoor up to 36kV Outdoor up to 24kV	370	620	17-22	28	70-150	50-95	35-50	25-50
	5014-370	Indoor up to 36kV Outdoor up to 24kV	370	620	19-28	33	95-300	120-240	70-150	50-95
	7521-370	Indoor up to 36kV Outdoor up to 24kV	370	620	29-39	45	400-630	300-630	240-500	150-400
	5014-500	Indoor up to 36kV Outdoor up to 36kV	500	910	19-28	33	95-300	120-240	70-150	50-95
	7521-500	Indoor up to 36kV Outdoor up to 36kV	500	910	29-39	45	400-630	300-630	240-500	150-400
	9527-500	Indoor up to 36kV Outdoor up to 36kV	500	1000	36-50	60	630-1000	630-1000	500-1000	500-800

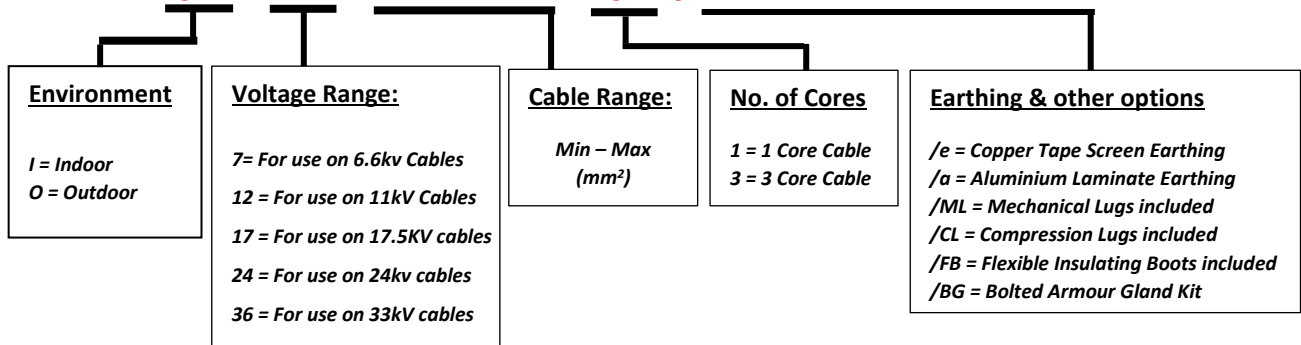
*the cross section range is a guide only based on standard IEC cable designs, due to variation in cable insulation thickness, the correct selection depends on the actual cable insulation diameter

Cold Shrink Termination Kit Selection:

Actual kit to be used is derived from selection of the correct termination for the application, considering the voltage range and diameter of the insulation and/or lug.

Full kits are assembled using relevant components for the cable type as per the following code convention:

RCST I/O XX xxx-xxx – 1/3 / e



Example: RCSTI 12 95-300 -3 /e /BG/ML/FB = this is an Indoor termination kit for 12kV level, three core cables between 95-300mm² with copper tape screen and wire armour. Mechanical lugs, bolted armour gland and flexible insulating boots included in kit. Please consult your local REPL sales office for details on kits to suit a specific application