





*The products shown in this
catalogue represent our standard
product ranges.*

*REPL flexible manufacturing
capabilities mean we can adapt
for special products to suit
particular applications if required.
Please contact your local REPL
sales office to discuss any
application.*

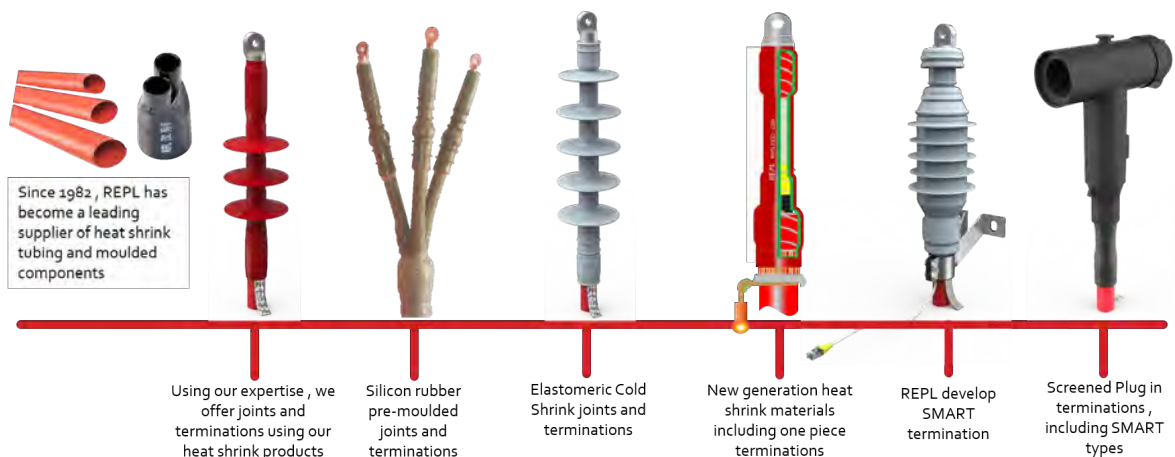
REPL have been designing and manufacturing **CABLE ACCESSORIES** for use on Energy Cables for over 40 years.

Our products are in daily use on every continent around the world.



EVERYDAY, we push the boundaries of technology to deliver the very best products

Over 40 years of continued product development ...



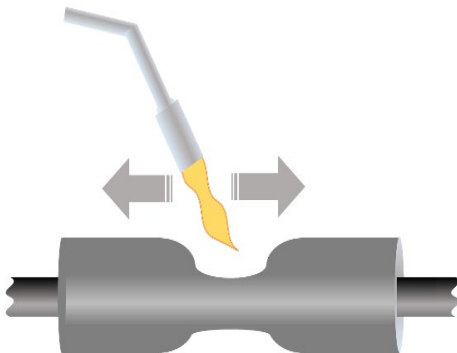
REPL offer products using three main methods of installation technology.

Each technology has specific advantages depending on the needs of the user.

We can offer impartial advice on the selection of product to ensure it meets the requirements in terms of suitability for application, environment and total cost of ownership.



Heat Shrink



Well established for use on low and medium voltage cables, heat shrinkable products are usually made from polyolefin type plastics which have been modified to give additional properties such as improved weathering and enhanced insulation levels.

Delivered as an expanded product, once the correct amount of heat is applied they recover to their original shape.

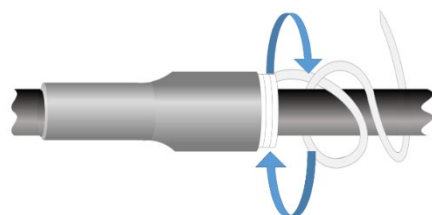
Heat Shrink is very versatile and the products can be made to enhance properties such as weathering or increase resistance to electrical tracking and control of electrical field.

Heat Shrink is resistant to most chemicals and will become rigid once it has been recovered making it a good option for mechanical protection. However, the rigidity prevents the product from flexing with the cable during normal operation meaning an effective environmental seal cannot be maintained without the aid of hot-melt adhesives or mastic tapes.

When stored correctly, there is unlimited shelf life for the product.



Cold Shrink

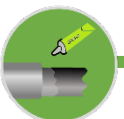


Cold shrinkable products are made from elastomeric materials such as Silicon or EPDM rubbers, which are pre-stretched onto a tubular hold-out made from plastic tape in a tight spiral.

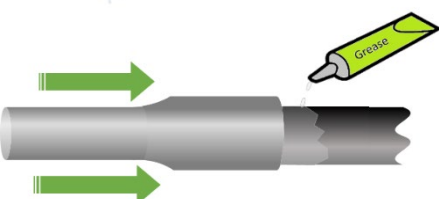
By unwinding the spiral tube, the material recovers to its original size.

The obvious advantage of Cold Shrink is the elimination of any heat source required for installation. In addition the rubber material will follow the normal expansion and contraction of cables without need for additional adhesives or mastics.

Care is needed to store the product and there is a finite shelf life to ensure.



Premoulded (Plug In)



Similar to cold shrink, these products are made of elastomeric material. Since these are supplied in unexpanded form the shelf life is unlimited.

The products are applied by sliding onto cores without use of any tooling up to 36kV application. Sliding is easily done manually by using silicone grease as a lubricant, without use of any tooling.



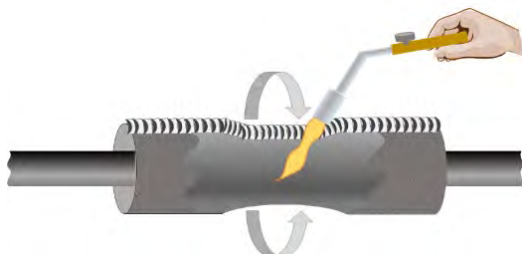
Cable Terminating & Switchgear Connection



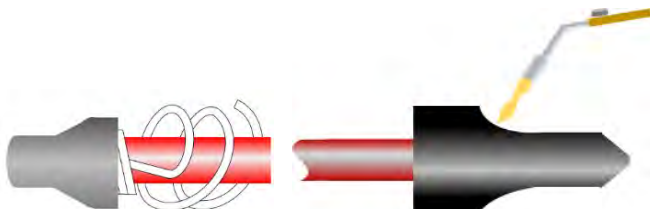
Cable Jointing



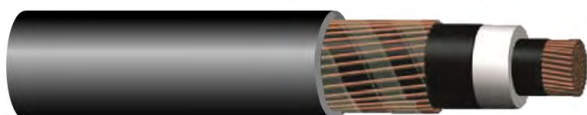
Mechanical Lugs & Connectors



Tube, Sleeves and Tape components



Moulded Components



Cable Dimension Data

REPL cable terminations are established in power networks worldwide up to 42kV.

Using our expertise in materials technology combined with deep working knowledge of cable systems, our designers have developed a range of products for terminating power cables on to equipment and overhead lines.

The installer has the choice of Heat Shrinkable, Cold Shrinkable or Push On systems for medium voltage cables from 3.8/6.6(7.2)kV up to 20.8/38(42)kV.

We offer both standard unscreened cable terminations for conventional installations together with screened separable connectors for use in modern gas insulated switchgears and equipment fitted with bushing profiles to IEC standards.

	Technology	Voltage Range	Part Code	Description	Page
	Heat Shrink	<3.6kV	RHT-1-3	Low Voltage Cable Terminations	5
	Heat Shrink	>6.6 - 42kV	RHT-7-36	Medium Voltage Heat Shrinkable Cable Termination System	8
	Cold Shrink	>6.6 - 36kV	RCST-7-36	Medium Voltage Cold Shrinkable Cable Termination System	16
	Plug In	>12 - 24kV	RPAE/RPAS	Screened Elbow/Straight connector for Interface A	22/23
	Plug In	>12 - 36kV	RPCT-36S	Screened Asymmetrical Compact Connector for interface B	24
	Plug In	>12 - 36kV	RPCT-36B	Screened Asymmetrical Compact Connector for interface C	25
	Plug In	>12 - 24kV	RPCT-24C	Screened T body connector for interface C1	26
	Plug In	>12 - 36kV	RPCT-36A	Screened T body connector for interface C1	28
	Plug In	>12 - 42kV	RPCT-42A	Screened T body connector for interface C1 & C2	30

Accessories for use with Cable Termination Kits

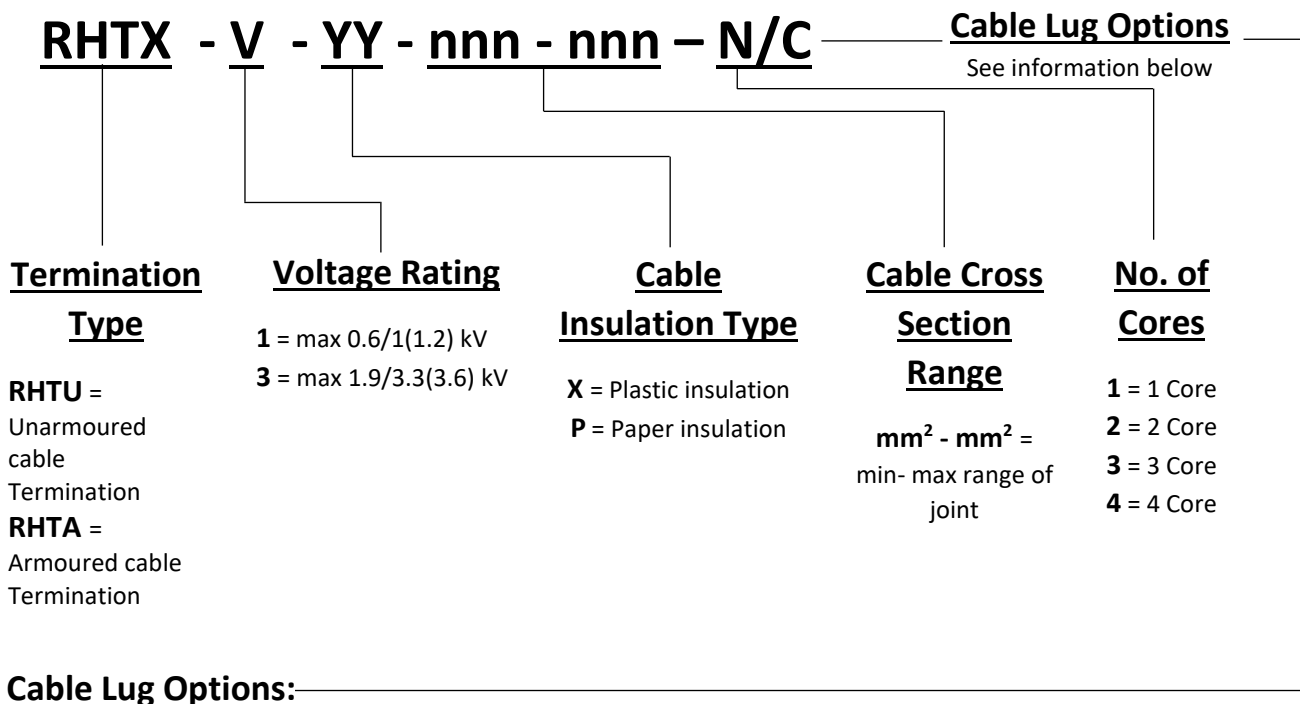
Part Code	Description	Page
RUSK	Unscreened termination for interface C 630A bushing	33
RCFB	Flexible insulating bushing boot	34
RHRB/RHSB	Heat Shrinkable insulating boots (straight/right-angled)	35
RBG	Bolted cable gland for SWA or AWA cables	36
RHSCG	Heat Shrink Cable Glands	37
RSEK	Solderless Earth Kit for copper tape screens	38
RSAC	Earth connection kit for SWA/AWA cables	38
RINS	Pole mounted termination support bracket and insulators	40

Using our established Heat Shrinkable tubing and mastics materials, RHT cable termination kits provide a flexible method to connect and seal power cables constructed without insulation screen (<3.6kV).



RHT – Cable Termination Designed for cables up to 3.6kV

The coding system below allows the installer to specify the correct termination based on the application and cable type. The termination code is made up of 5 elements as follows:



Cable Lug Options:

Standard termination kits are supplied without cable lugs included.

They can be included in the kits by adding the following suffix to the product code:-

- /ML = Electro-tinned aluminium mechanical lugs supplied in kit

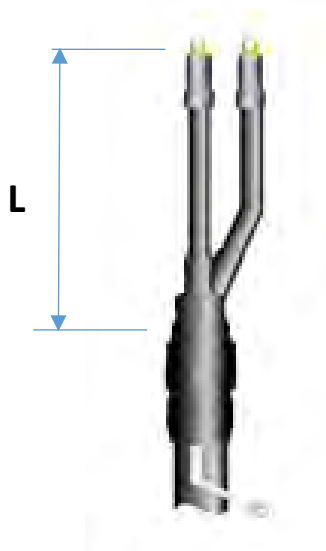
Examples:

RHTA – 1X 70-120-4/ML – Heat Shrinkable cable termination for a 4 core 0.6/1 kV armoured XLPE or PVC insulated cable between 70 and 120mm², supplied with mechanical lugs.

RHTA – 3X 240-400-3 – Heat Shrinkable cable termination for 3 core 1.9/3.3 kV armoured XLPE or PVC insulated cables between 240 and 300mm², supplied without connectors.



RHTU-1X



Unarmoured Cable Termination for 1-4 cores cables to 1.2kV

Utilising REPL Heat Shrinkable tubes, these kits are suitable for terminating unarmoured fixed or flexible cables with XLPE, PVC or EPR insulation up to 1.2kV, e.g. NYY, H07RN-F types without metallic screen.

They can also be used on cables with copper wire concentric screens, or for armoured cables when a separate glanding of the armour wire arrangement is used.

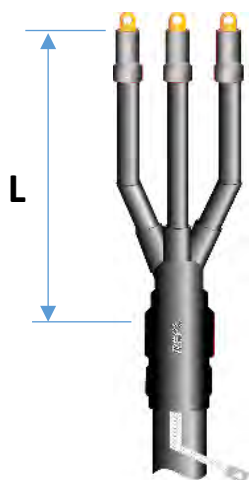
Features:

- Designed to comply with **EN50393, CENELEC HD 623 S1, ENATS 09-11**
- Unlimited shelf life
- For use in indoor or outdoor environments
- Resistant to chemicals, UV light and water ingress
- Suitable for use with mechanical or cable crimp lugs
- Voltage Level : $U_0/U (U_{max}) = 0.6/1kV (1.2kV)$
- Cable Range : up to 4 core unarmoured cables 25 to 400mm²

Kit Contents:

- Heat Shrinkable cable breakout
- Thin Wall core insulation tubes
- Medium Wall adhesive lined tubing for lug sealing
- Thin Wall tube for screen wire take off
- Mastic sealant tapes
- Full Installation Instructions
- Option to include mechanical lugs in kit

Product Code	No. of Cores	Cable Range	Standard Tail Length
	X	mm ²	L (mm)
RHTU 1X 2.5-6-X	1 - 4	2.5 - 6	-
RHTU 1X 10-16-X	1 - 4	10 - 16	300
RHTU 1X 25-50-X	1 - 4	25 - 50	300
RHTU 1X 70-120-X	1 - 4	70 - 120	300
RHTU 1X 120-185-X	1 - 4	120 - 185	500
RHTU 1X 240-400-X	1 - 4	240 - 400	500



RHTA-1X
(0.6/1(1.2)kV)

Armoured Cable Termination for 1-4 core polymeric insulated cables up to 1.2kV

Utilising REPL Heat Shrinkable tubes, these termination kits are suitable for jointing armoured cables with XLPE, PVC or EPR insulation for cables up to 0.6/1(1.2)kV voltage level.



RHTA- 1X

Features:

- Designed to comply to **EN50393, CENELEC HD 623 S1, ENATS 09-11**
- Unlimited shelf life
- For use indoor or outdoor environments
- Resistant to chemicals, UV light and water ingress
- Suitable for use with mechanical or compression cable lugs
- Voltage Level : $U_0/U (U_{max}) = 0.6/1kV (1.2kV)$
- Cable Range : Up to 4 core Armoured cables 25 to 400mm²

Kit Contents:

- Heat Shrinkable cable breakout
- Medium Wall core insulation tubes
- Medium Wall adhesive lined tubing for lug sealing
- Mastic sealant tapes
- Armour & lead sheath take off connection (braid, support ring and clamp)
- Installation instructions
- Option to include mechanical lugs in kit

0.6/1 (1.2)kV SWA cables 1-4 core Product Code	No. of Cores	Cable Range	Standard Tail Length
	x	mm ²	L (mm)
RHTA 1X 2.5-6-X	1 - 4	2.5 - 6	600
RHTA 1X 10-16-X	1 - 4	10 - 16	600
RHTA 1X 25-50-X	1 - 4	25 - 50	600
RHTA 1X 70-120-X	1 - 4	70 - 120	600
RHTA 1X 120-185-X	1 - 4	120 - 185	600
RHTA 1X 240-400-X	1 - 4	240 - 400	600

REPL RHT range of medium voltage cable termination kits have been successfully installed on thousands of networks across the world. Using our established heat shrinkable tubing and mastics materials. RHT cable termination kits provide a flexible method to connect and seal power cables from 7kV up to 36kV.



RHT – Cable Termination Designed for cables 7kV - 36kV

The coding system below allows the installer to specify the correct termination based on the application and cable type. The termination code is made up of 5 elements as follows:

RHT(X) - V - YY - nnn - nnn - N/C					Cable Lug & Accessory Options
					See information below
Termination Type	Voltage Rating	Cable Insulation Type	Cable Cross Section Range	No. of Cores	
RHTI = For indoor (dry box) environment	7 = max 3.8/6.6(7.2) kV	X = Plastic insulation	mm² - mm² = min- max range of joint	1 = 1 core	
RHTO = For outdoor environment	12 = max 6.35/11(12) kV	P = Paper insulation		3 = 3 core	
RHTSI = Single tube design kit for indoor environment	17 = max 8/15(17.5) kV				
RHTSO = Single tube design for outdoor environment	24 = max 12/22(24) kV				
	36 = max 19/33(36) kV				

Cable Lug & Accessory Options:

Standard termination kits are supplied without cable lugs included.

They can be included in the kits by adding the following suffix to the product code:-

- **/ML12** = Electro-tinned aluminium mechanical lugs to suit M12 stud supplied in the kit
- **ML16** - Electro-tinned aluminium mechanical lugs to suit M16 stud supplied in the kit.

In addition, the earthing connection for tape and armouring, can be included into the kits by adding the following suffix to the product code:-

- **/E** = Earthing connections for tape and armouring included



Single core kit for Outdoor 7kV unarmoured cable,
supplied with mechanical lugs

Example code: **RHTO 7X 95-240-1/ML**



Single core kit for Indoor 11kV unarmoured cable
using one piece tube, supplied with mechanical lugs

Example code: **RHTSI 12X 95-240-1/ML**



Three core kit for Indoor 11kV Armoured cable, supplied
with Mechanical Lugs

Example code: **RHTI 12X 35-95-3/E/ML**



RHT-(7-36)

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

REPL Heat Shrinkable Cable Termination Kits are extensively tested, and used worldwide, for reliable cable junctions in the voltage range from 7kV to 36kV.

The kits are designed for either indoor or outdoor applications, and can be used with polymeric or paper insulated cables using either a compression type lug, or a mechanical type lug (which can be supplied in the kit if specified).

The termination kits combine the anti-tracking external tubing for excellent weathering and electrical properties together with internal stress control for field control at the insulation screen cut achieved by either a separate stress control tube (RHT type), or using a special coating on the anti-track tube (single tube RHTS types).

Where applicable, sheds are included for extending the creepage distance – kits can be tailored with extra sheds for areas with high pollution or for coastal installations. For cables with armouring, a solderless earth kit is included to create a consistent connection from the cable screen and armour.

Technical Details for RHT/RHTS Heat Shrinkable Cable Termination System

Voltage Class:	7.2kV	12kV	17.5kV	24kV	36kV
Cross Section Range (mm ²)	35 - 1000	35 - 1000	35 - 1000	35 - 1000	35 - 1000
Cable Insulation Diameter (mm)	13 - 43	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 , 5 min (kV)	>17	>28.5	>39	>57	>85.5
DC Voltage Withstand , 15min (kV)	>23	>38	>52	>76	>114

Features:

- Designed to comply with **CENELEC HD 629.1, IEC 60502-4**
- Unlimited shelf life
- For use in indoor or outdoor environments
- Resistant to chemicals, UV light and water ingress
- Suitable for use with mechanical cable lugs



RHT-(7-36)X-1

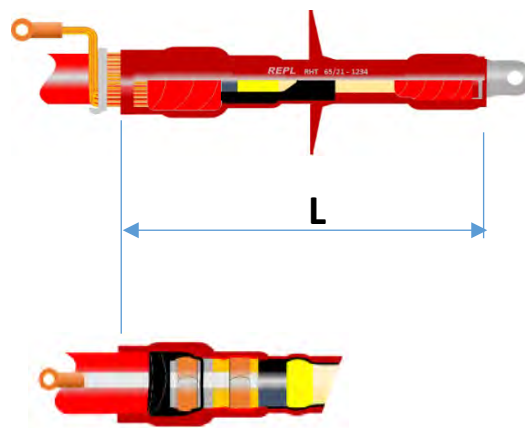
Cable Terminations for 1 core polymeric insulated cables from 7kV to 36kV

Kit Contents:

Standard Kits for un-armoured cables:

- Cable phase lug (optional – supplied only if specified)
- Sealing mastic for top seal / metallic screen
- Anti-tracking Heat Shrinkable tube
- Creepage Extension Sheds – based on voltage/type
- Stress control Heat Shrinkable tube
- Stress control / void filling mastic

Additional screen earthing components for armoured cables (specify - /E at end of termination kit part number)



- Constant force spring for copper tape screen
- Tinned copper braid
- Jubilee clamp for armour
- Black sealing mastic for armours

7.2 kV

12 kV

Single Core Polymeric Termination Kits		INDOOR		OUTDOOR	
Conductor Cross Section (mm²)	Cable Construction	Product Code	Tail Length L mm	Product Code	Tail Length L mm
Cable Termination for Polymeric Insulated cables rated at Um= 7.2kV					
35 - 95	No armour	RHTI 7X 35-95-1	300	RHTO 7X 35-95-1	500
	Armoured	RHTI 7X 35-95-1/E		RHTO 7X 35-95-1/E	
95 - 240	No armour	RHTI 7X 95-240-1	300	RHTO 7X 95-240-1	500
	Armoured	RHTI 7X 95-240-1/E		RHTO 7X 95-240-1/E	
120 - 300	No armour	RHTI 7X 120-300-1	300	RHTO 7X 120-300-1	500
	Armoured	RHTI 7X 120-300-1/E		RHTO 7X 120-300-1/E	
185 - 400	No armour	RHTI 7X 185-400-1	400	RHTO 7X 185-400-1	500
	Armoured	RHTI 7X 185-400-1/E		RHTO 7X 185-400-1/E	
300 - 630	No armour	RHTI 7X 300-630-1	350	RHTO 7X 300-630-1	500
	Armoured	RHTI 7X 300-630-1/E		RHTO 7X 300-630-1/E	
800 -1000	No armour	RHTI 7X 800-1000-1	400	RHTO 7X 800-1000-1	500
	Armoured	RHTI 7X 800-1000-1/E		RHTO 7X 800-1000-1/E	
Cable Termination for Polymeric Insulated cables rated at Um= 12kV					
35 - 95	No armour	RHTI 12X 35-70-1	400	RHTO 12X 35-70-1	500
	Armoured	RHTI 12X 35-70-1/E		RHTO 12X 35-70-1/E	
95 - 240	No armour	RHTI 12X 95-240-1	400	RHTO 12X 95-240-1	500
	Armoured	RHTI 12X 95-240-1/E		RHTO 12X 95-240-1/E	
120 - 300	No armour	RHTI 12X 120-300-1	400	RHTO 12X 120-300-1	500
	Armoured	RHTI 12X 120-300-1/E		RHTO 12X 120-300-1/E	
185 - 400	No armour	RHTI 12X 185-400-1	400	RHTO 12X 185-400-1	500
	Armoured	RHTI 12X 185-400-1/E		RHTO 12X 185-400-1/E	
300 - 630	No armour	RHTI 12X 300-630-1	450	RHTO 12X 300-630-1	500
	Armoured	RHTI 12X 300-630-1/E		RHTO 12X 300-630-1/E	
800 - 1000	No armour	RHTI 12X 800-1000-1	450	RHTO 12X 800-1000-1	500
	Armoured	RHTI 12X 800-1000-1/E		RHTO 12X 800-1000-1/E	



RHT-(7-36)X-1

17.5 kV

24 kV

36 kV

Single Core Polymeric Termination Kits		INDOOR		OUTDOOR	
Conductor Cross Section (mm²)	Cable Construction	Product Code	Tail Length L mm	Product Code	Tail Length L mm
Cable Termination for Polymeric Insulated cables rated at Um= 17.5kV					
35 - 95	No armour	RHTI 17X 35-95-1	450	RHTO 17X 35-95-1	550
	Armoured	RHTI 17X 35-95-1/E		RHTO 17X 35-95-1/E	
95 - 240	No armour	RHTI 17X 95-240-1	500	RHTO 17X 95-240-1	550
	Armoured	RHTI 17X 95-240-1/E		RHTO 17X 95-240-1/E	
120 - 300	No armour	RHTI 17X 120-300-1	500	RHTO 17X 120-300-1	550
	Armoured	RHTI 17X 120-300-1/E		RHTO 17X 120-300-1/E	
185 - 400	No armour	RHTI 17X 185-400-1	500	RHTO 17X 185-400-1	550
	Armoured	RHTI 17X 185-400-1/E		RHTO 17X 185-400-1/E	
300 - 600	No armour	RHTI 17X 300-630-1	550	RHTO 17X 300-630-1	600
	Armoured	RHTI 17X 300-630-1/E		RHTO 17X 300-630-1/E	
800 - 1000	No armour	RHTI 17X 800-1000-1	550	RHTO 17X 800-1000-1	600
	Armoured	RHTI 17X 800-1000-1/E		RHTO 17X 800-1000-1/E	
Cable Termination for Polymeric Insulated cables rated at Um= 24kV					
35 - 95	No armour	RHTI 24X 35-95-1	450	RHTO 24X 35-95-1	550
	Armoured	RHTI 24X 35-95-1/E		RHTO 24X 35-95-1/E	
95 - 240	No armour	RHTI 24X 95-240-1	500	RHTO 24X 95-240-1	550
	Armoured	RHTI 24X 95-240-1/E		RHTO 24X 95-240-1/E	
120 - 300	No armour	RHTI 24X 120-300-1	500	RHTO 24X 120-300-1	550
	Armoured	RHTI 24X 120-300-1/E		RHTO 24X 120-300-1/E	
185 - 400	No armour	RHTI 24X 185-400-1	500	RHTO 24X 185-400-1	550
	Armoured	RHTI 24X 185-400-1/E		RHTO 24X 185-400-1/E	
300 - 630	No armour	RHTI 24X 300-630-1	500	RHTO 24X 300-630-1	600
	Armoured	RHTI 24X 300-630-1/E		RHTO 24X 300-630-1/E	
800 - 1000	No armour	RHTI 24X 800-1000-1	550	RHTO 24X 800-1000-1	650
	Armoured	RHTI 24X 800-1000-1/E		RHTO 24X 800-1000-1/E	
Cable Termination for Polymeric Insulated cables rated at Um= 36kV					
35 - 95	No armour	RHTI 36X 35-95-1	600	RHTO 36X 35-95-1	700
	Armoured	RHTI 36X 35-95-1/E		RHTO 36X 35-95-1/E	
95 - 240	No armour	RHTI 36X 95-240-1	600	RHTO 36X 95-240-1	700
	Armoured	RHTI 36X 95-240-1/E		RHTO 36X 95-240-1/E	
120 - 300	No armour	RHTI 36X 120-300-1	650	RHTO 36X 120-300-1	750
	Armoured	RHTI 36X 120-300-1/E		RHTO 36X 120-300-1/E	
185 - 400	No armour	RHTI 36X 185-400-1	700	RHTO 36X 185-400-1	800
	Armoured	RHTI 36X 185-400-1/E		RHTO 36X 185-400-1/E	
300 - 630	No armour	RHTI 36X 300-630-1	700	RHTO 36X 300-630-1	800
	Armoured	RHTI 36X 300-630-1/E		RHTO 36X 300-630-1/E	
800 - 1000	No armour	RHTI 36X 800-1000-1	750	RHTO 36X 800-1000-1	800
	Armoured	RHTI 36X 800-1000-1/E		RHTO 36X 800-1000-1/E	

Kits are normally supplied in sets of Three phases

On Outdoor Version, the Specific creepage is > 31mm/kV = Class IV Heavy Pollution

If required, a longer tail length and/or additional creepage sheds can be offered

Features:

- Designed to comply with **CENELEC HD 629.1, IEC 60502-4**
- Unlimited shelf life
- For use in indoor or outdoor environments
- Resistant to chemicals, UV light and water ingress
- Suitable for use with mechanical cable lugs

Kit Contents:

Standard Kits for un-armoured cables:

- Cable phase lug (optional – supplied only if specified)
- Sealing mastic for top seal / metallic screen
- Anti-tracking Heat Shrinkable tube
- Creepage Extension Sheds – based on voltage/type
- Stress Control Heat Shrinkable tube
- Stress control / void filling mastic
- Heat Shrinkable 3 core breakout

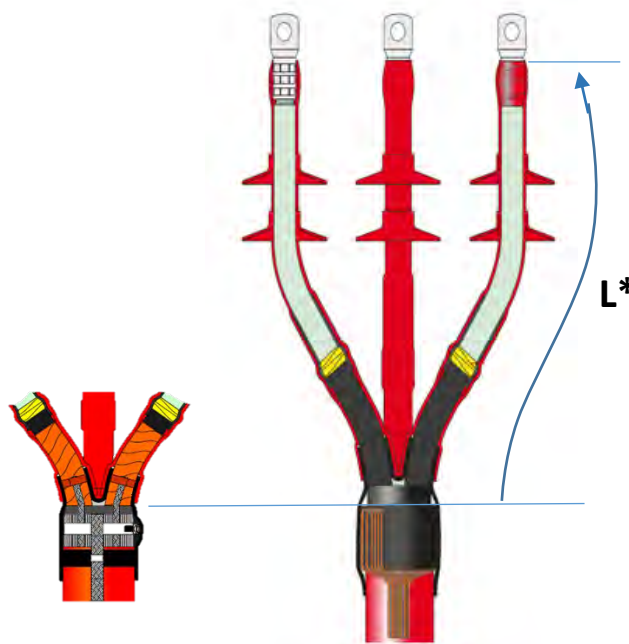
Additional screen earthing components for armoured cables (specify - /E at end of termination kit part number)

- Constant force spring for copper tape screen
- Tinned copper braid
- Jubilee clamp for armour
- Black sealing mastic for armours



RHT-(7-36)X-3

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



7.2 kV
12 kV

Three Core Polymeric Termination Kits		INDOOR	L	OUTDOOR	L
Conductor Cross Section (mm ²)	Cable Construction	Product Code	Tail Length mm	Product Code	Tail Length mm
Cable Termination for Polymeric Insulated cables rated at Um= 7.2kV					
35 - 95	No armour	RHTI 7X 35-95-3	400	RHTO 7X 35-95-3	500
	Armoured	RHTI 7X 35-95-3/E		RHTO 7X 35-95-3/E	
95 - 240	No armour	RHTI 7X 95-240-3	400	RHTO 7X 95-240-3	500
	Armoured	RHTI 7X 95-240-3/E		RHTO 7X 95-240-3/E	
120 - 300	No armour	RHTI 7X 120-300-3	400	RHTO 7X 120-300-3	500
	Armoured	RHTI 7X 120-300-3/E		RHTO 7X 120-300-3/E	
185 - 400	No armour	RHTI 7X 185-400-3	400	RHTO 7X 185-400-3	500
	Armoured	RHTI 7X 185-400-3/E		RHTO 7X 185-400-3/E	
Cable Termination for Polymeric Insulated cables rated at Um= 12kV					
35 - 95	No armour	RHTI 12X 35-95-3	600	RHTO 12X 35-95-3	650
	Armoured	RHTI 12 35-95-3/E		RHTO 12X 35-95-3/E	
95 - 240	No armour	RHTI 12X 95-240-3	600	RHTO 12X 95-240-3	650
	Armoured	RHTI 12X 95-240-3/E		RHTO 12X 95-240-3/E	
120 - 300	No armour	RHTI 12X 120-300-3	600	RHTO 12X 120-300-3	650
	Armoured	RHTI 12X 120-300-3/E		RHTO 12X 120-300-3/E	
185 - 400	No armour	RHTI 12X 185-400-3	600	RHTO 12X 185-400-3	650
	Armoured	RHTI 12X 185-400-3/E		RHTO 12X 185-400-3/E	



RHT-(7-36)X-3

17.5 kV

24 kV

36 kV

Three Core Polymeric Termination Kits		INDOOR		OUTDOOR	
Conductor Cross Section (mm²)	Cable Construction	Kit Number	Tail Length L mm	Kit Number	Tail Length L mm
Cable Termination for Polymeric Insulated cables rated at Um= 17.5kV					
35 - 95	No armour	RHTI 17X 35-95-3	600	RHTO 17X 35-95-3	700
	Armoured	RHTI 17X 35-95-3/E		RHTO 17X 35-95-3/E	
95 - 240	No armour	RHTI 17X 95-240-3	600	RHTO 17X 95-240-3	700
	Armoured	RHTI 17X 95-240-3/E		RHTO 17X 95-240-3/E	
120 - 300	No armour	RHTI 17X 120-300-3	600	RHTO 17X 120-300-3	700
	Armoured	RHTI 17X 120-300-3/E		RHTO 17X 120-300-3/E	
185 - 400	No armour	RHTI 17X 185-400-3	600	RHTO 17X 185-400-3	700
	Armoured	RHTI 17X 185-400-3/E		RHTO 17X 185-400-3/E	
Cable Termination for Polymeric Insulated cables rated at Um= 24kV					
35 - 95	No armour	RHTI 24X 35-95-3	650	RHTO 24X 35-95-3	850
	Armoured	RHTI 24X 35-95-3/E		RHTO 24X 35-95-3/E	
95 - 240	No armour	RHTI 24X 95-240-3	650	RHTO 24X 95-240-3	850
	Armoured	RHTI 24X 95-240-3/E		RHTO 24X 95-240-3/E	
120 - 300	No armour	RHTI 24X 120-300-3	650	RHTO 24X 120-300-3	850
	Armoured	RHTI 24X 120-300-3/E		RHTO 24X 120-300-3/E	
185 - 400	No armour	RHTI 24X 185-400-3	650	RHTO 24X 185-400-3	850
	Armoured	RHTI 24X 185-400-3/E		RHTO 24X 185-400-3/E	
Cable Termination for Polymeric Insulated cables rated at Um= 36kV					
35 - 95	No armour	RHTI 36X 35-95-3	800	RHTO 36X 35-95-3	1200
	Armoured	RHTI 36X 35-95-3/E		RHTO 36X 35-95-3/E	
95 - 240	No armour	RHTI 36X 95-240-3	800	RHTO 36X 95-240-3	1200
	Armoured	RHTI 36X 95-240-3/E		RHTO 36X 95-240-3/E	
120 - 300	No armour	RHTI 36X 120-300-3	800	RHTO 36X 120-300-3	1200
	Armoured	RHTI 36X 120-300-3/E		RHTO 36X 120-300-3/E	
185 - 400	No armour	RHTI 36X 185-400-3	800	RHTO 36X 185-400-3	1200
	Armoured	RHTI 36X 185-400-3/E		RHTO 36X 185-400-3/E	

*On Outdoor Versions, the Specific creepage is > 31mm/kV = Class IV Heavy Pollution. If required, a longer tail length and/or additional creepage sheds can be offered.



RHT-(7-36)P-3

Features:

- Designed to comply to **CENELEC HD 629.1**
- Unlimited shelf life
- For use indoor or outdoor environments
- Resistant to chemicals, UV light and water ingress
- Suitable for use with mechanical cable lugs (available as an option)

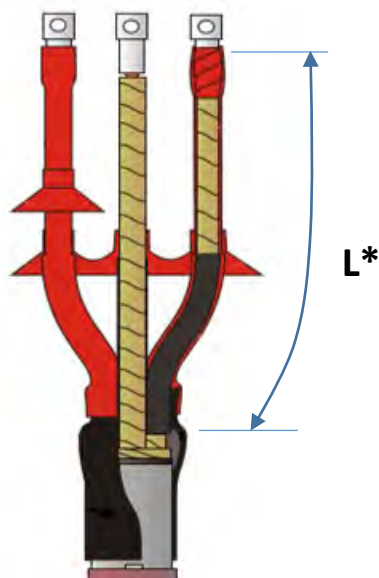
Kit Contents:

Standard Kits for un-armoured cables:

- Cable phase lug (optional – supplied only if specified)
- Red sealing mastic for top seal
- Lug Seal
- Anti-tracking Heat Shrinkable tube
- Clear insulating oil barrier tube
- Stress Control Heat Shrinkable tube
- Stress control / void filling yellow mastic
- Conductive breakout (3 core version)
- Creepage extension sheds – (based on voltage/type)
- Constant force spring
- Sealant mastic for metallic screen connection
- Armour earthing materials (if specified)

Cable Terminations for 1 or 3 core paper insulated cables from 7kV to 36kV

The kits are designed for either indoor or outdoor applications for cables with paper insulation and lead sheaths. The termination kits combine the anti-tracking external tubing for excellent weathering and electrical properties together with an internal stress control tube for field control with oil barrier tubing over the paper insulation.



7.2 kV

Paper Insulation Termination Kits		INDOOR		OUTDOOR	
Conductor Cross Section (mm ²)	Cable Construction	Product Code	Tail Length L mm	Product Code	Tail Length L mm
Cable Termination for PILC cables rated at Um= 7.2kV					
35 - 95	1 core PILC	RHTI 7P 35-95-1	450	RHTO 7P 35-95-1	450
	3c PILC/SWA	RHTI 7P 35-95-3/E	600	RHTO 7P 35-95-3/E	650
95 - 240	1 core PILC	RHTI 7P 95-240-1	450	RHTO 7P 95-240-1	450
	3c PILC/SWA	RHTI 7P 95-240-3/E	600	RHTO 7P 95-240-3/E	650
185 - 400	1 core PILC	RHTI 7P 185-400-1	450	RHTO 7P 185-400-1	450
	3c PILC/SWA	RHTI 7P 185-400-3/E	600	RHTO 7P 185-400-3/E	650
300 - 630	1 core PILC	RHTI 7P 300-630-1	450	RHTO 7P 300-630-1	450



RHT-(7-36)P-3

12 kV

17.5 kV

24 kV

36 kV

Paper Insulation Termination Kits		INDOOR		OUTDOOR	
Conductor Cross Section (mm ²)	Cable Construction	Kit Number	Tail Length L mm	Kit Number	Tail Length L mm
Cable Termination for PILC cables rated at Um= 12kV					
35 - 95	1 core PILC	RHTI 12P 35-95-1	500	RHTO 12P 35-95-1	500
	3c PILC/SWA	RHTI 12P 35-95-3/E	600	RHTO 12P 35-95-3/E	650
95 - 240	1 core PILC	RHTI 12P 95-240-1	500	RHTO 12P 95-240-1	500
	3c PILC/SWA	RHTI 12P 95-240-3/E	600	RHTO 12P 95-240-3/E	650
185 - 400	1 core PILC	RHTI 12P 185-400-1	500	RHTO 12P 185-400-1	500
	3c PILC/SWA	RHTI 12P 185-400-3/E	600	RHTO 12P 185-400-3/E	650
300 - 630	1 core PILC	RHTI 12P 300-630-1	500	RHTO 12P 300-630-1	500
	3c PILC/SWA	-	-	-	-
Cable Termination for PILC cables rated at Um= 17.5kV					
35 - 95	1 core PILC	RHTI 17P 35-95-1	500	RHTO 17P 35-95-1	500
	3c PILC/SWA	RHTI 17P 35-95-3/E	600	RHTO 17P 35-95-3/E	600
95 - 240	1 core PILC	RHTI 17P 95-240-1	500	RHTO 17P 95-240-1	500
	3c PILC/SWA	RHTI 17P 95-240-3/E	600	RHTO 17P 95-240-3/E	600
185 - 400	1 core PILC	RHTI 17P 185-400-1	500	RHTO 17P 185-400-1	500
	3c PILC/SWA	RHTI 17P 185-400-3/E	600	RHTO 17P 185-400-3/E	600
300 - 630	1 core PILC	RHTI 17P 300-630-1	500	RHTO 17P 300-630-1	500
	3c PILC/SWA	-	-	-	-
Cable Termination for PILC cables rated at Um= 24kV					
35 - 95	1 core PILC	RHTI 24P 35-95-1	600	RHTO 24P 35-95-1	650
	3c PILC/SWA	RHTI 24P 35-95-3/E	650	RHTO 24P 35-95-3/E	850
95 - 240	1 core PILC	RHTI 24P 95-240-1	600	RHTO 24P 95-240-1	650
	3c PILC/SWA	RHTI 24P 95-240-3/E	650	RHTO 24P 95-240-3/E	850
185 - 400	1 core PILC	RHTI 24P 185-400-1	600	RHTO 24P 185-400-1	650
	3c PILC/SWA	RHTI 24P 185-400-3/E	650	RHTO 24P 185-400-3/E	850
300 - 630	1 core PILC	RHTI 24P 300-630-1	600	RHTO 24P 300-630-1	650
	3c PILC/SWA	-	-	-	-
800 - 1000	1 core PILC	RHTI 24P 800-1000-1	600	RHTO 24P 800-1000-1	650
	3c PILC/SWA	-	-	-	-
Cable Termination for PILC cables rated at Um= 36kV					
35 - 95	1 core PILC	RHTI 36P 35-95-1	650	RHTO 36P 35-95-1	750
	3c PILC/SWA	RHTI 36P 35-95-3/E	800	RHTO 36P 35-95-3/E	1000
95 - 240	1 core PILC	RHTI 36P 95-240-1	650	RHTO 36P 95-240-1	750
	3c PILC/SWA	RHTI 36P 95-240-3/E	800	RHTO 36P 95-240-3/E	1000
185 - 400	1 core PILC	RHTI 36P 185-400-1	650	RHTO 36P 185-400-1	750
	3c PILC/SWA	RHTI 36P 185-400-3/E	800	RHTO 36P 185-400-3/E	1000
300 - 630	1 core PILC	RHTI 36P 300-630-1	650	RHTO 36P 300-630-1	750
	3c PILC/SWA	-	-	-	-
800 - 1000	1 core PILC	RHTI 36P 800-1000-1	650	RHTO 36P 800-1000-1	750
	3c PILC/SWA	-	-	-	-

*On Outdoor Version, the Specific creepage is > 31mm/kV = Class IV Heavy Pollution If required, a longer tail length and/or additional creepage sheds can be offered

Features:

- Designed to comply to **CENELEC HD 629.S1, IEC 60502-4**
- Unlimited shelf life
- Single Heat Shrink anti-tracking tube with internal surface coated with metal oxide layer for stress control
- For use indoor or outdoor environments
- Resistant to chemicals, UV light and water ingress
- Suitable for use with mechanical or compression cable lugs (available as an option)

Kit Contents:

Standard Kits for un-armoured cables:

- Cable phase lug (optional – supplied only if specified)
- Sealing mastic for top seal / metallic screen
- Single piece Anti-tracking Heat Shrinkable tube with internal stress control coating
- Creepage extension sheds – based on voltage/type
- Stress control / void filling mastic
- Conductive breakout & core tubes (for 3 core versions)

For cables with tape screen and armours, additional earth kits required – see termination accessories



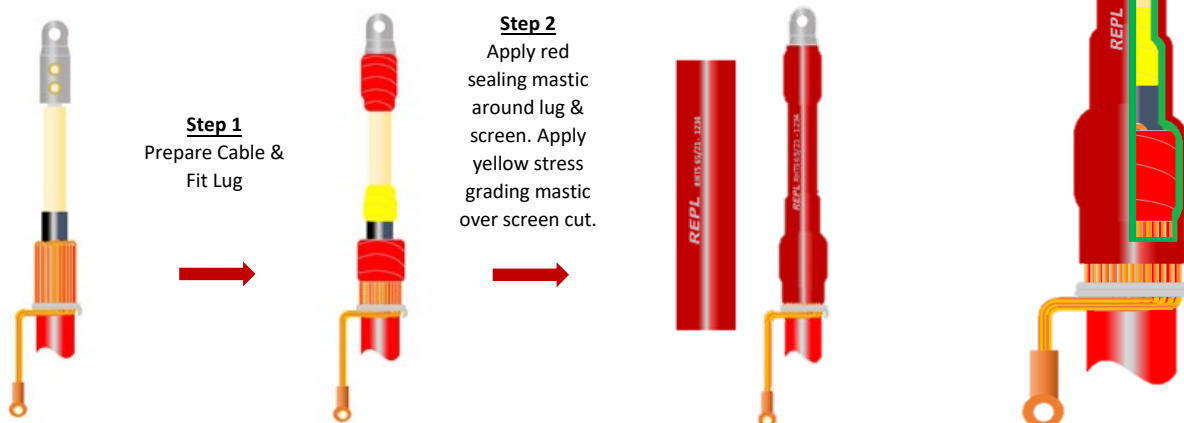
RHTS-(6-24)X

Single Tube Cable Terminations for 1 or 3 core polymeric insulated cables from 7kV to 24kV

REPL range of RHTS Heat Shrinkable Terminations are suitable for installations on medium voltage extruded insulated cables (e.g. XLPE, EPR, PE...) with maximum system voltage of 24kV.

The termination has a one piece heat shrink tube with excellent electrical anti-tracking and weathering properties, and an internal coating of metal oxide material to provide void filling and electrical stress control around the screen cut area.

Kits are available for both indoor and outdoor environments using either single core or three core designs. Both compression and mechanical bolted cable lugs can be used.





RHTS-(6-24)X

12 kV

17.5 kV

24 kV

Single Tube Termination Kits		INDOOR		OUTDOOR	
Conductor Cross Section (mm ²)	Cable Construction	Product Code	Tail Length L mm	Product Code	Tail Length L mm
Single Tube Cable Termination for Polymeric cables rated at Um= 12kV					
35 - 70	1 core	RHTSI 12X 35-70-1	300	RHTSO 12X 35-70-1	355
95 - 240	1 core	RHTSI 12X 95-240-1	300	RHTSO 12X 95-240-1	350
120 - 300	1 core	RHTSI 12X 120-300-1	300	RHTSO 12X 120-300-1	345
300 - 630	1 core	RHTSI 12X 300-630-1	350	RHTSO 12X 300-630-1	372
Single Tube Cable Termination for Polymeric cables rated at Um= 17.5kV					
35 - 70	1 core	RHTSI 17X 35-70-1	300	RHTSO 12X 35-70-1	440
95 - 185	1 core	RHTSI 17X 95-185-1	300	RHTSO 12X 95-185-1	424
120 - 300	1 core	RHTSI 17X 120-300-1	300	RHTSO 12X 120-300-1	435
300 - 630	1 core	RHTSI 17X 300-630-1	350	RHTSO 12X 300-630-1	452
Single Tube Cable Termination for Polymeric cables rated at Um= 24kV					
50 - 95	1 core	RHTSI 24X 50-95-1	370	RHTSO 17X 50-95-1	590
120 - 300	1 core	RHTSI 24X 120-300-1	370	RHTSO 17X 120-300-1	600
300 - 630	1 core	RHTSI 24X 300-630-1	370	RHTSO 17X 300-630-1	598

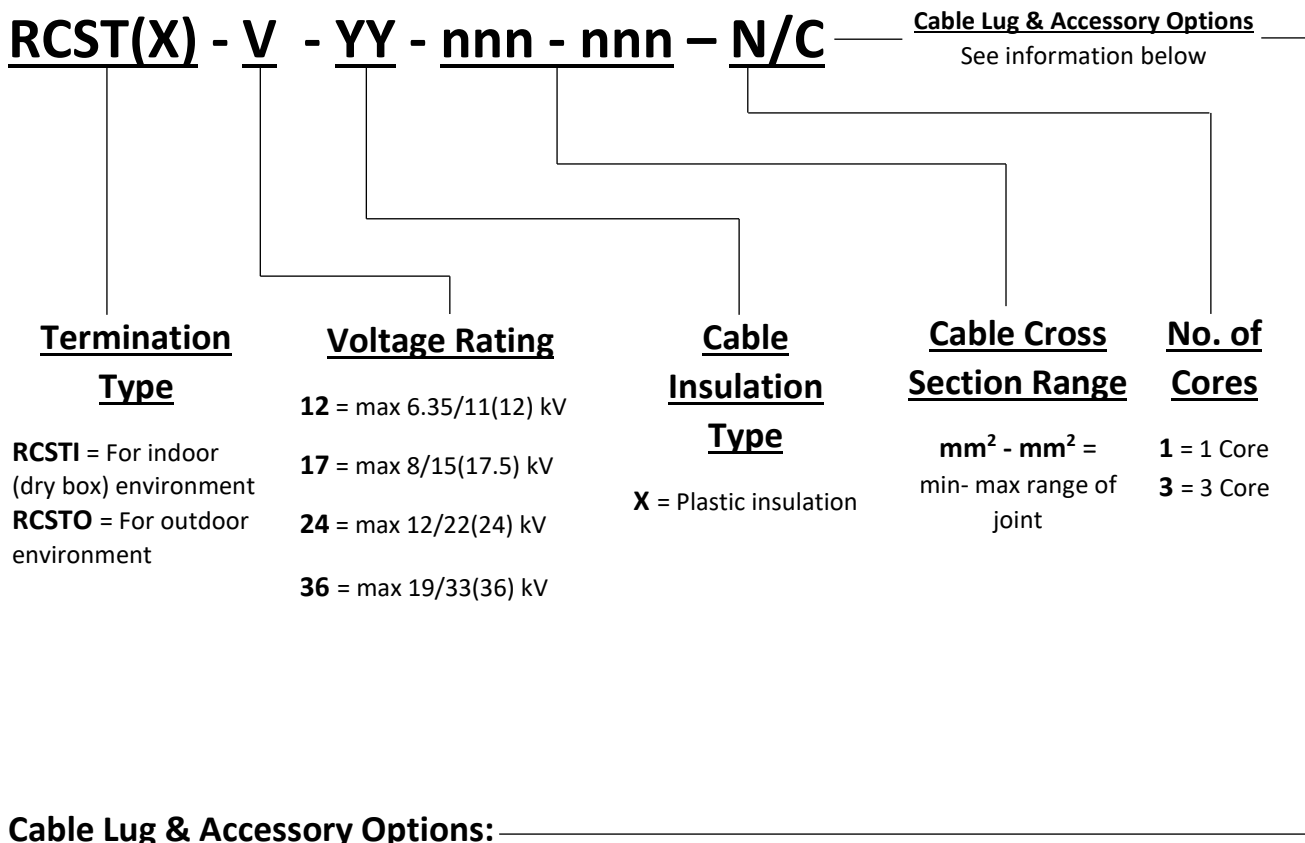
*On Outdoor Version, the Specific creepage is > 31mm/kV = Class IV Heavy Pollution If required, a longer tail length and/or additional creepage sheds can be offered

REPL RCST range of medium voltage cable termination kits uses a moulded rubber body with integrated stress control and creepage extension sheds. They offer an “all cold” method of installation.



RCST – Cold Shrinkable Cable Termination Designer for cables 12kV - 36kV

The coding system below allows installer to specify correct termination based on application and cable type. The termination code is made up of 5 elements as follows:



Standard termination kits are supplied without cable lugs. Our range of REPL Mechanical cable lugs can be ordered separately. Please see RMVL cable lug on page x.

In addition, the following can be ordered alongside the kits:

- **RCFB** = Set of cold applied flexible insulating boots (indoor termination) [See page 34](#)
- **RBG - CS** = Bolted gland kit for armour wires (indoor termination) [See page 36](#)
- **RINS** = Bracket & support insulator set (outdoor termination) [See page 40](#)

RCST-(12-36)

Cable Terminations for 1 and 3 core cables from 12kV to 36kV

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

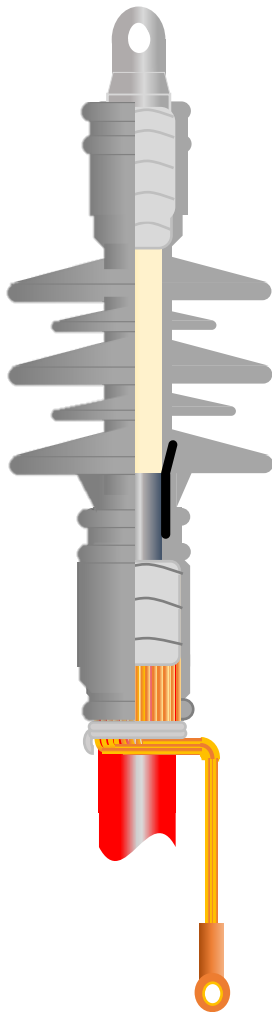
The termination is a one piece moulded design with an outer layer of highly track resistant silicone rubber and integrated conductive geometric stress cone.

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 torches are not allowed.

There is a range of bodies in various lengths and moulded shed arrangements to cover indoor and outdoor terminations from 12kV to 36kV in single core and three core designs.



Moulded body with integrated creepage sheds



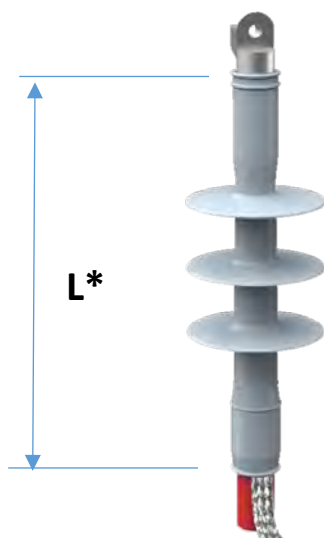
Moulded body without creepage sheds for indoor dry box

Technical Details for RCST Cold Shrinkable Cable Termination System

Voltage Class:	12kV	17.5kV	24kV	36kV
Cross Section Range (mm ²)	50 - 1000	35 - 1000	35 - 1000	35 - 1000
Cable Insulation Diameter (mm)	15 - 46	17 - 48	18 - 50	24 - 55
Voltage Rating U_0/U (U _m) kV	6.35/11 (12)	8.7/15 (17.5)	12.7/22 (24)	19/33 (36)
Basic Impulse Level (BIL) kV	95	95	125	194
Partial Discharge at 1.73U ₀ (pC)	<10	<10	<10	<10
AC Voltage Withstand , 5 min (kV)	>28.5	>39	>57	>85.5
DC Voltage Withstand , 15min (kV)	>38	>52	>76	>114



RCST-(12-36)X-1



Cable Terminations for 1 core cables from 12kV to 36kV

- Tested to **CENELEC HD 629.1**
- Quick and easy installation using no heat source or tooling.
- One piece design with integrated stress control silicon rubber material for excellent electrical insulation and weathering properties.
- Can be used 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
Cold Shrinkable Termination for Polymeric Insulated single core cables rated at Um= 12kV							
12 kV	50 - 95	17 - 22	28	RCSTI 12X 50-95-1	320	RCSTO 12X 50-95-1	370
	95 - 240	19 - 27	35	RCSTI 12X 95-240-1	320	RCSTO 12X 95-240-1	370
	240 - 630	27 - 38	50	RCSTI 12X 240-630-1	320	RCSTO 12X 240-630-1	370
	500 - 1000	35 - 52	70	RCSTI 12X 500-1000-1	370	RCSTO 12X 500-1000-1	370
Cold Shrinkable Termination for Polymeric Insulated single core cables rated at Um= 17.5kV							
17.5 kV	35 - 70	17 - 22	28	RCSTI 17X 35-70-1	320	RCSTO 17X 35-70-1	370
	70 - 240	19 - 27	35	RCSTI 17X 70-240-1	320	RCSTO 17X 70-240-1	370
	240 - 500	27 - 38	50	RCSTI 17X 240-500-1	320	RCSTO 17X 240-500-1	370
	500 - 1000	35 - 52	70	RCSTI 17X 500-1000-1	370	RCSTO 17X 500-1000-1	370
Cold Shrinkable Termination for Polymeric Insulated single core cables rated at Um= 24kV							
24 kV	35 - 50	17 - 22	28	RCSTI 24X 35-50-1	370	RCSTO 24X 35-50-1	370
	50 - 185	19 - 27	35	RCSTI 24X 50-185-1	370	RCSTO 24X 50-185-1	370
	185 - 400	27 - 38	50	RCSTI 24X 185-400-1	370	RCSTO 24X 185-400-1	370
	400 - 1000	35 - 52	70	RCSTI 24X 400-1000-1	370	RCSTO 24X 400-1000-1	370
Cold Shrinkable Termination for Polymeric Insulated single core cables rated at Um= 36kV							
36kV	35 - 70	19 - 27	35	RCSTI 36X 35-70-1	370	RCSTO 36X 35-70-1	500
	95 - 300	27 - 38	50	RCSTI 36X 95-300-1	370	RCSTO 36X 95-300-1	500
	300 - 800	35 - 52	70	RCSTI 36X 300-800-1	370	RCSTO 36X 300-800-1	500

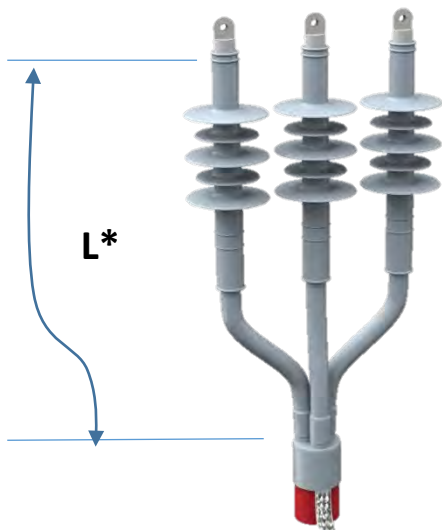
*Tail length is linear length of termination body at fully recovered state.

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 the 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-(12-36)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 used 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 Three Core INDOOR Termination	Tail Length (approx.) L mm	Product Code Three Core OUTDOOR Termination	Tail Length L mm
12 kV	Cold Shrinkable Termination for Polymeric Insulated 3 core cables rated at Um= 12kV						
	50 - 95	17 - 22	28	RCSTI 12X 50-95-3	540	RCSTO 12X 50-95-3	600
	95 - 240	19 - 27	35	RCSTI 12X 95-240-3	540	RCSTO 12X 95-240-3	600
17.5 kV	240 - 400	27 - 38	50	RCSTI 12X 240-400-3	540	RCSTO 12X 240-400-3	600
	Cold Shrinkable Termination for Polymeric Insulated 3 core cables rated at Um= 17.5kV						
	35 - 70	17 - 22	28	RCSTI 17X 35-70-3	540	RCSTO 17X 35-70-3	600
24 kV	70 - 240	19 - 27	35	RCSTI 17X 70-240-3	540	RCSTO 17X 70-240-3	600
	240 - 400	27 - 38	50	RCSTI 17X 240-400-3	540	RCSTO 17X 240-400-3	600
	Cold Shrinkable Termination for Polymeric Insulated 3 core cables rated at Um= 24kV						
36kV	35 - 50	17 - 22	28	RCSTI 24X 35-50-3	600	RCSTO 24X 35-50-3	750
	50 - 185	19 - 27	35	RCSTI 24X 50-185-3	600	RCSTO 24X 50-185-3	750
	185 - 400	27 - 38	50	RCSTI 24X 185-400-3	600	RCSTO 24X 185-400-3	750
	Cold Shrinkable Termination for Polymeric Insulated 3 core cables rated at Um= 36kV						
	35 - 70	19 - 27	35	RCSTI 36X 35-70-3	600	RCSTO 36X 35-70-3	800
	95 - 300	27 - 38	50	RCSTI 36X 95-300-3	600	RCSTO 36X 95-300-3	800
	300 - 400	35 - 52	70	RCSTI 36X 300-400-3	600	RCSTO 36X 300-400-3	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

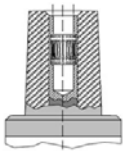
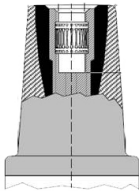
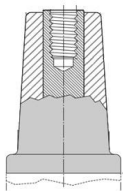
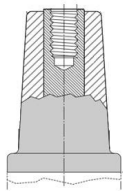
Note 1 = Cross section is a guide only based on standard IEC designs- the cable insulation diameter is more critical dimension to ensure body fits the cable to be terminated. For cables with tape screen and armour, additional earth kits are required.

REPL range of medium voltage screened outer cone cable termination kits are designed for connecting polymeric insulated cables to equipment with standard bushing profiles according to the standards CENELEC EN 50180 / EN 50181.



RP – Outer Cone Cable Termination Designed for cables 12kV - 42kV

The coding system below allows installer to specify correct outer cone termination based on application and cable type.

Bushing Type (acc. To EN 50180/50181)	Max Current A	Voltage Range kV	Description	Cable Range mm ²	Product Code	Product Code for Branch Connector
A 	250	12 - 24	Screened Elbow Connector	16 - 120	RPAE	N/A
	250	12 - 24	Screened Straight Connector	16 - 120	RPAS	N/A
B 	400	12 - 36	Screened Compact Asymmetric Connector & Spring Contact Pin	35 - 240	RPCT-36B	N/A
C₁ 	630	12 - 24	Screened Compact Asymmetric Connector & Branch Connector	35 - 300	RPCT-24C	RPBCT-24C
	630	12 - 36	Screened Asymmetric Connector & Branch Connector	35 - 400	RPCT-36A	RPBCT-36A
C₂ 	1250	12 - 42	Screened Asymmetric Connector & Branch Connector	35 - 1000	RPCT-42A	RPBCT-42A



RP AE



RP AS



RPCT-36S



RPCT-36B



RPBCT-24C



RPCT-24C



RPBCT-36A



RPCT-36A



RPBCT-42A



RPCT-42A

Outer Cone Cable Terminations for 1 and 3 core cables from 12kV to 42kV

REPL range of RP Outer Cone Terminations are suitable for installations on medium voltage cables with polymeric insulation up to 42kV. The termination is a fully screened version suitable for connection to equipment which has bushing profiles according to the CENELEC standard EN 50180/50181.

The EPDM moulded body has an outer conductive layer which is connected to the system earth. The inner layer has a Faraday Cage around the conductor lug.

A range of cable adaptors which are parked over the end of the cable screen provide the field control at the end of the insulation screen.

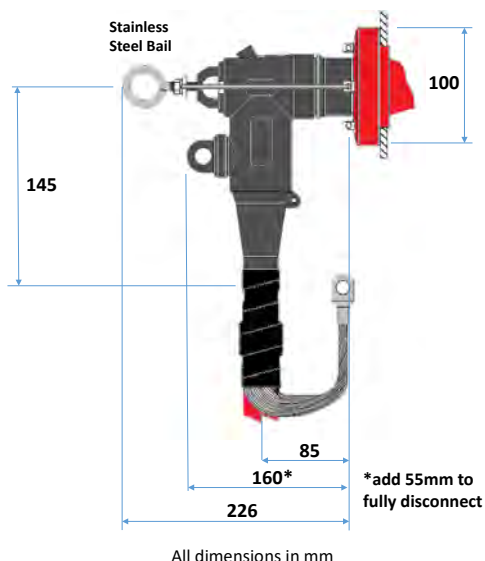
The range has connectors suitable for the following bushings:

- Interface A (250A Spring Contact Pin)
- Interface B (400A M22 Spring Contact Pin)
- Interface C1 (630A M16 Bolted Spring Contact Pin)
- Interface C2 (1250A M16 Bolted Contact Pin)

Technical Details for RP Outer Cone Cable Termination System

Voltage Class:	12kV	17.5kV	24kV	36kV	42kV
Voltage Rating U_0/U (U_m) kV	6.35/11 (12)	8.7/15 (17.5)	12.7/22 (24)	19/33 (36)	20.8/35 (42)
Basic Impulse Level (BIL) kV	95	95	125	194	200
Partial Discharge at $1.73U_0$ (pC)	<10	<10	<10	<10	<10
AC Voltage Withstand , 5 min (kV)	>28.5	>39	>57	>85.5	>93.5
DC Voltage Withstand , 15min (kV)	>38	>52	>76	>114	>125

Screened Elbow 250A up to 24kV Interface A



Standard Kit Contents:

- Set of 3 separable elbow connector bodies
- Set of 3 cable lugs and connecting pin
- Set of 3 stainless steel wire retaining bails
- Earthing connections and mastic sealants
- Installation materials and instructions

Suitable for connecting all types of polymeric insulated cables to equipment with bushings Type A according to EN 50180 and EN 50181.

- For Voltage Range up to 12/20 (24)kV
- Impulse Voltage 125kV
- Continuous current 250 A (300 A overload for 8 hours)
- Meets the requirements of IEC 60502-4 and CENELEC HD 629.1
- No minimum phase clearance requirements
- Suitable for Copper or Aluminium Conductors from 25-120mm²
- Conductor connection by lug or mechanical lug
- EPDM moulded body with semi-conductive outer layer
- Built-in capacitive test point to determine the circuit status
- Easy to install with comprehensive instructions included in each kit
- Each connector body is factory tested for partial discharge and AC withstand to ensure 100% reliability
- Unlimited shelf life at normal storage temperatures

Body Code	Insulation Diameter Range Ø mm	Adaptor Code
RPAE-J	17 - 22	D
RPAE-J	19.5 - 25	F
RPAE-H	23.1 - 28.7	-
RPAE-J	27.9 - 33.5	-

Cable Cross Section (mm ²)	Mechanical Lug Code
25	RMVL-A250S 25-50
35	
50	
70	RMVL-A350S 70-120
95	
120	

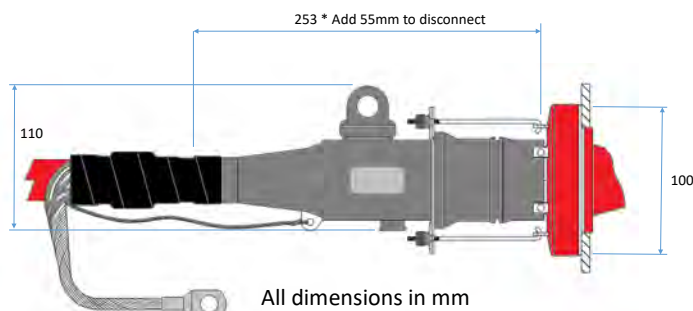
How to select correct connector for cable size:

- 1/Select Body code according to the cable insulation diameter range in tables above
- 2/Select Adaptor Code (if needed) to the cable insulation diameter range in table above
- 3/Select the Mechanical Lug or Bimetallic compression lug to suit cable conductor cross section according to the tables above :

Full Product Code = Body Code/ Adaptor Code/ Lug Code

e.g. **RPAE-J/D/25-50**

Screened Straight Connector 250A up to 24kV Interface A



Standard Kit Contents:

- Set of 3 separable straight connector bodies
- Set of 3 cable lugs and connecting pin
- Set of 3 stainless steel wire retaining bails
- Earthing connections and mastic sealants
- Installation materials and instructions

Suitable for connecting all types of polymeric insulated cables to equipment with bushings Type A according to EN 50180 and EN 50181.

- For Voltage Range up to 12/20 (24)kV
- Impulse Voltage 125kV
- Continuous current 250 A (300 A overload for 8 hours)
- Meets the requirements of IEC 60502-4 and CENELEC HD 629.1 S2
- No minimum phase clearance requirements
- Suitable for Copper or Aluminium Conductors from 25-120mm²
- Conductor connection by lug or mechanical lug
- EPDM moulded body with semi-conductive outer layer
- Built-in capacitive test point to determine the circuit status
- Easy to install with comprehensive instructions included in each kit
- Each connector body is factory tested for partial discharge and AC withstand to ensure 100%reliability
- Unlimited shelf life at normal storage temperatures

Body Code	Insulation Diameter Range Ø mm
RPAS-J-D	17 - 22
RPAS-J-F	19.5 - 25
RPAS-H	23.1 - 28.7
RPAS-J	27.9 - 33.5

Cable Cross Section (mm ²)	Mechanical Lug Code
25	RMVL-A250S 25-50
35	
50	
70	RMVL-A350S 70-120
95	
120	

How to select correct connector for cable size:

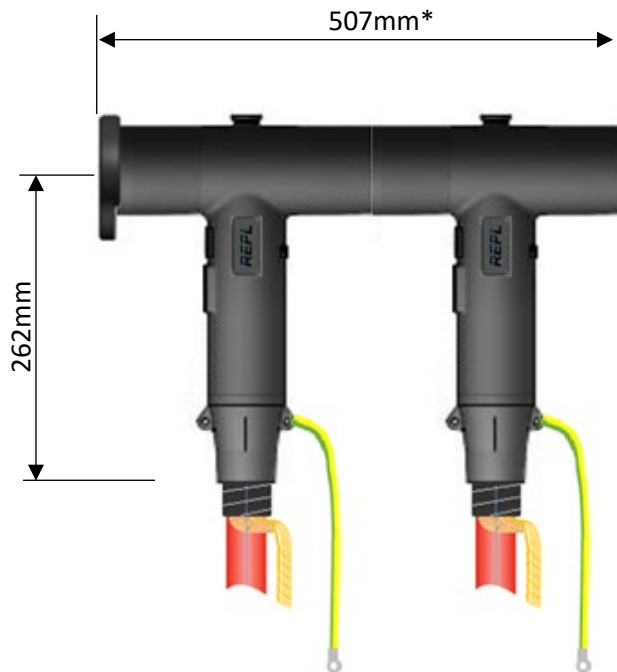
- 1/Select Body code according to the cable insulation diameter range in tables above
- 2/Select Adaptor Code (if needed) to the cable insulation diameter range in table above
- 3/Select the Mechanical Lug or Bimetallic compression lug to suit cable conductor cross section according to the tables above :

Full Product Code = Body Code/ Adaptor Code/ Lug Code e.g. **RPAS-J/D/25-50**

Screened Symmetrical Compact Connector 630A up to 36kV Interface C1



RPCT-36S



- For Voltage Range up to 19/33 (36)kV
- Continuous current 630A
- Conforms to **HD 629.1** and **IEC60502-4**
- No minimum phase clearance requirements
- Symmetrical body allows for branched connection when using RPC-36S coupler.
- Mounting can be vertical, horizontal, or any angle in between
- Suitable for Copper or Aluminium Conductors from 35-300mm²
- Integrated mechanical screw type lug
- EPDM moulded body with conductive outer layer
- Easy to install with comprehensive instructions included in each kit
- Each connector body is factory tested for partial discharge and AC withstand to ensure 100% reliability

Standard Kit Contents:

- Set of 3 EPDM Moulded Bodies
- Set of 3 Insulation Adaptors
- Set of 3 Back Plug Assembly
- Set of 3 Mechanical Lugs
- M16 Connection Stud
- Mastic & EPR Tapes
- Installation instructions

Body Code	Insulation Diameter Range Ø mm	Adaptor Code
RPCT 36S	16.3 - 19.3	A
	18.3 - 21.0	B
	20 - 24.1	C
	23.1 - 27	D
	25.6 - 29	E
	27.7 - 32.6	F
	30.9 - 36.2	G
	34 - 39.5	H

Cable Cross Section (mm ²)	Mechanical Lug Code
25	RMVL-C 25-95
35	
50	
70	
95	RMVL-C 35-150
120	
150	
185	
240	RMVL-C 70-240
300	
	RMVL-C 120-300

Full Product Code = Body Code/ Adaptor Code/ Lug Code:

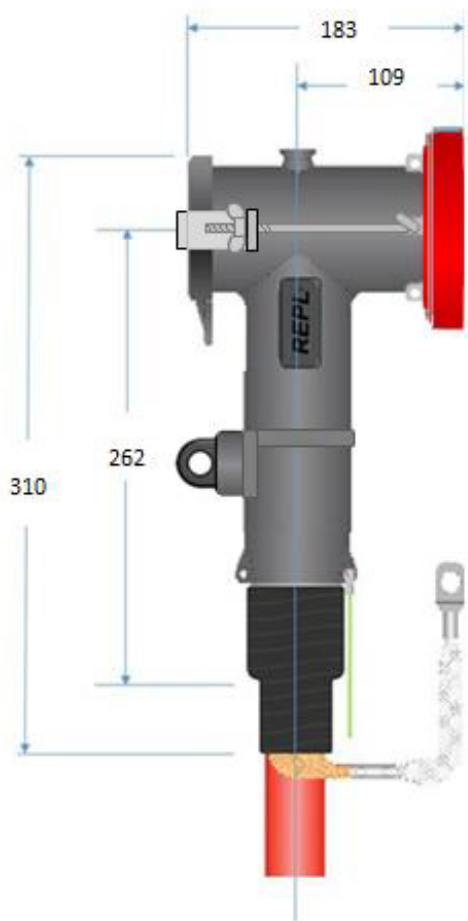
e.g. RPCT 36S/D/35-150

(kits are normally sets of 3 phases)

Screened Asymmetrical Compact Connector 400A up to 36kV Interface B



RPCT-36B



- For Voltage Range up to 19/33 (36)kV
- Continuous current 400A
- Conforms to **HD 629.1 and IEC60502-4**
- No minimum phase clearance requirements
- Compact design – asymmetrical body allows minimum depth of connection – especially when multiple connections are used
- Mounting can be vertical, horizontal, or any angle in between
- Suitable for Copper or Aluminium Conductors from 35-240mm²
- Integrated mechanical screw type lug
- EPDM moulded body with conductive outer layer
- Easy to install with comprehensive instructions included in each kit
- Each connector body is factory tested for partial discharge and AC withstand to ensure 100% reliability

Standard Kit Contents:

- Set of 3 separable connector bodies and insulating back plug
- Set of 3 silicon stress control elements
- Set of 3 mechanical type lug and spring contact pin
- Earthing connections and mastic sealants
- Installation materials and instructions
- Fixing metal bail

Body Code	Insulation Diameter Range Ø mm	Adaptor Code
RPCT 36B	13.5 - 17.2	AA
	16.3 - 19.3	A
	18.3 - 21.0	B
	20 - 24.1	C
	23.1 - 27	D
	25.6 - 29	E
	27.7 - 32.6	F
	30.9 - 36.2	G
	34 - 39.5	H

Cable Cross Section (mm ²)	Mechanical Lug Code
35	RMVL-B 35-150/35
50	
70	
95	
120	RMVL-B 70-240/35
150	
185	
240	

Full Product Code = Body Code/ Adaptor Code/ Lug Code:

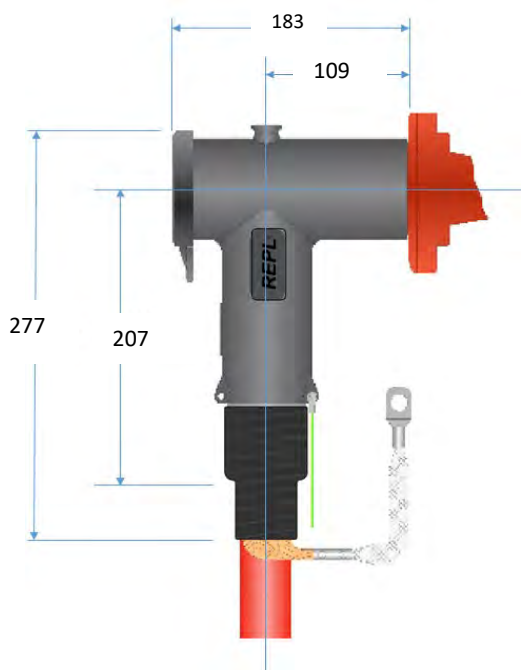
e.g. **RPCT 36B/D/35-150**

(kits are normally sets of 3 phases)

Screened Asymmetrical Compact Connector 630A up to 24kV Interface C1



RPCT-24C



- For Voltage Range up to 12/20 (24)kV
- Continuous current 630 A (900 A overload for 8 hours)
- Conforms to **HD 629.1 and IEC60502-4**
- No minimum phase clearance requirements
- Compact design – asymmetrical body allows minimum depth of connection – especially when multiple connections are used
- Mounting can be vertical, horizontal, or any angle in between
- Suitable for Copper or Aluminium Conductors from 35-300mm²
- Integrated mechanical screw type lug
- EPDM moulded body with conductive outer layer
- Easy to install with comprehensive instructions included in each kit
- Each connector body is factory tested for partial discharge and AC withstand to ensure 100% reliability

Standard Kit Contents:

- Set of 3 separable connector bodies and insulating back plug
- Set of 3 silicon stress control elements
- Set of 3 mechanical type lug and connecting stud
- Earthing connections and mastic sealants
- Installation materials and instructions

Body Code	Insulation Diameter Range Ø mm	Adaptor Code
RPCT 24C	16.3 - 19.3	A
	18.3 - 21.0	B
	20 - 24.1	C
	23.1 - 27	D
	25.6 - 29	E
	27.7 - 32.6	F
	30.9 - 36.2	G
	34 - 39.5	H

Cable Cross Section (mm ²)	Mechanical Lug Code
25	RMVL-C 25-95
35	
50	
70	
95	
120	RMVL-C 35-150
150	
185	
240	RMVL-C 70-240
300	
	RMVL-C 120-300

Full Product Code = Body Code/ Adaptor Code/ Lug Code:

e.g. **RPCT 24C/D/35-150**

(kits are normally sets of 3 phases)

Screened Asymmetrical Compact Connector 630A up to 24kV Interface C1



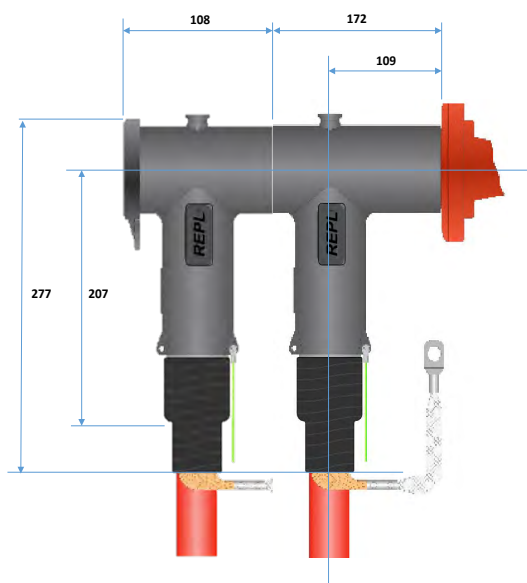
RPBCT-24C

Standard Kit Contents:

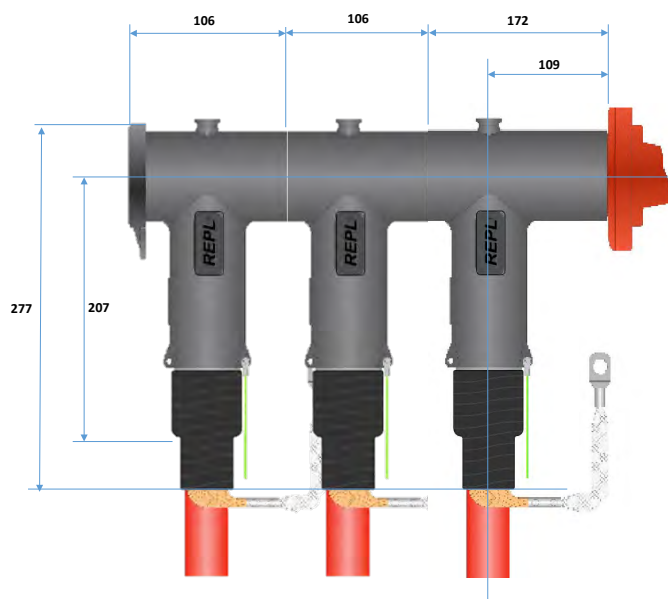
- Set of 3 separable branch connector bodies
- Set of 3 silicon stress control elements
- Set of 3 screw type lug and extension stud
- Earthing connections and mastic sealant
- Installation materials and instructions

Use in combination with RPCT-24C for parallel connection of up to 3 cables to one Type C1 bushing

- For Voltage Range up to 12/20 (24)kV
- Continuous current 630 A
- Conforms to HD 629.1 and IEC60502-4



1 X RPBCT-24C installed in back of RPCT-24C



2 X RPBCT-24C installed in back of RPCT-24C

Body Code	Insulation Diameter Range Ø mm	Adaptor Code
RPBCT 24C	16.3 - 19.3	A
	18.3 - 21.0	B
	20 - 24.1	C
	23.1 - 27	D
	25.6 - 29	E
	27.7 - 32.6	F
	30.9 - 36.2	G
	34 - 39.5	H

Cable Cross Section (mm ²)	Mechanical Lug Code
25	RMVL-C 25-95
35	
50	
70	
95	RMVL-C 35-150
120	
150	
185	
240	RMVL-C 70-240
300	
	RMVL-C 120-300

Full Product Code = Body Code/ Adaptor Code/ Lug Code:

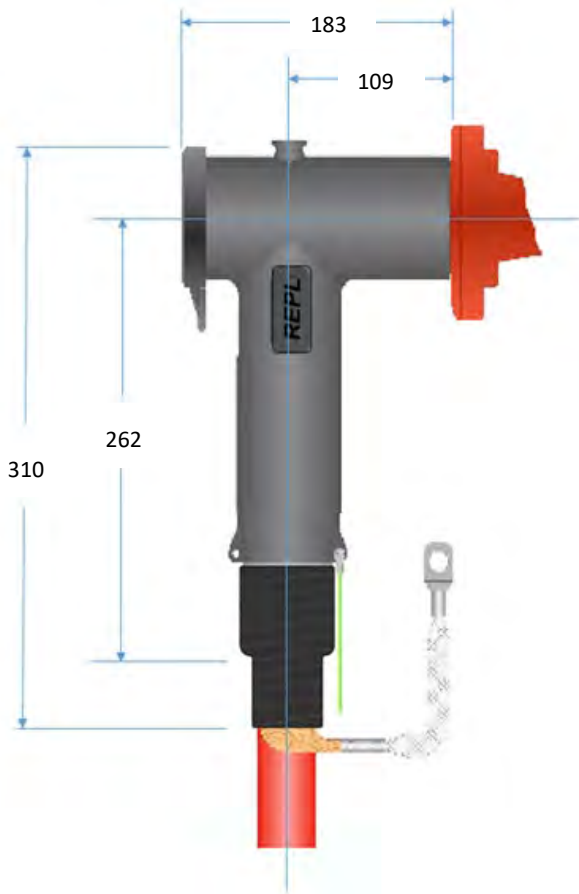
e.g. **RPBCT 24C/D/95-150**

(kits are normally sets of 3 phases) The RPBCT-24C can only be used in conjunction with a RPCT-24C connector

Screened Asymmetrical Compact Connector 630A up to 36kV Interface C1



RPCT-36A



Suitable for connecting all types of polymeric insulated cables to equipment with bushings Type C1 according to EN 50180 and EN 50181.

- For Voltage Range up to 19/33 (36)kV
- Continuous current 630 A (900 A overload for 8 hours)
- Conforms to **HD 629.1** and **IEC60502-4**
- No minimum phase clearance requirements
- Compact design – asymmetrical body allows minimum depth of connection – especially when multiple connections are used
- Mounting can be vertical, horizontal, or any angle in between
- Suitable for Copper or Aluminium Conductors from 70-400mm²
- Integrated mechanical screw type lug
- EPDM moulded body with semi-conductive outer layer
- Easy to install with comprehensive instructions included in each kit
- Each connector body is factory tested for partial discharge and AC withstand to ensure 100% reliability

Standard Kit Contents:

- Set of 3 separable connector bodies and insulating back plug
- Set of 3 silicon stress control elements
- Set of 3 mechanical type lug and connecting stud
- Earthing connections and mastic sealants
- Installation materials and instructions

Body Code	Insulation Diameter Range Ø mm	Adaptor Code
RPCT 36A	16.3 - 19.3	A
	18.3 - 21.0	B
	20 - 24.1	C
	23.1 - 27	D
	25.6 - 29	E
	27.7 - 32.6	F
	30.9 - 36.2	G
	34 - 39.5	H

Full Product Code = Body Code/ Adaptor Code/ Lug Code:

e.g. **RPCT 36A/F/120-300** (kits are normally sets of 3 phases)

Cable Cross Section (mm ²)	Mechanical Lug Code
25	RMVL-C 25-95/35
35	
50	
70	
95	RMVL-C 35-150/35
120	
150	
185	RMVL-C 70-240/35
240	
300	
400	RMVL-C 120-300/35
	RMVL 240-400/35

Screened Asymmetrical Compact Connector 630A up to 36kV Interface C1



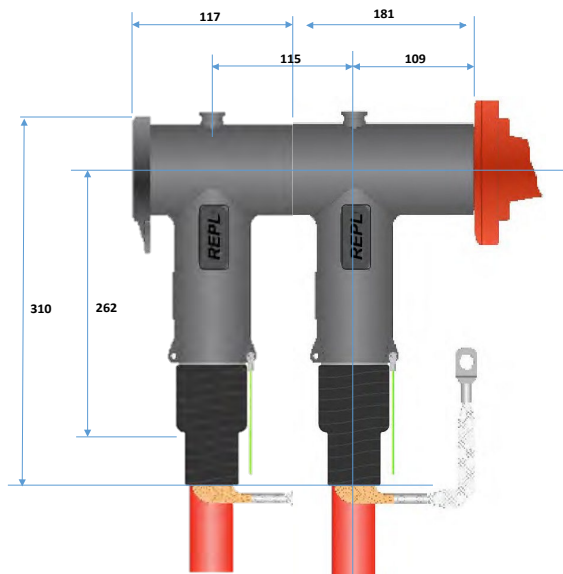
RPBCT-36A

Standard Kit Contents:

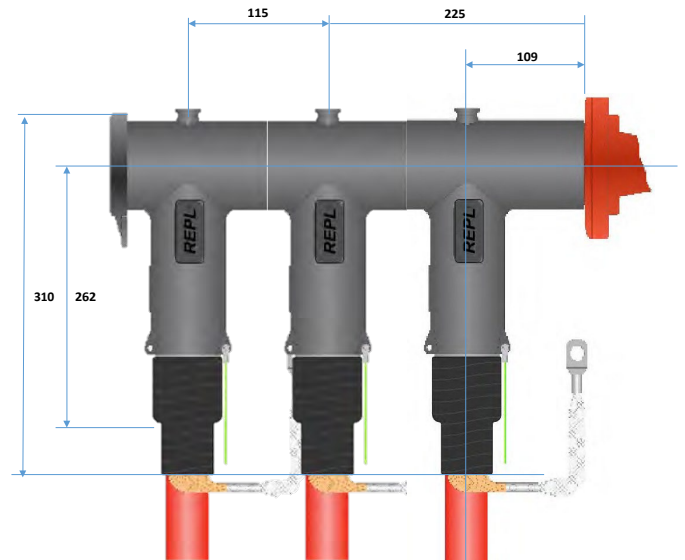
- Set of 3 separable branch connector bodies
- Set of 3 Silicon Stress Control Elements
- Set of 3 screw type lug and extension stud
- Earthing connections and mastic sealant
- Installation materials and instructions

Use in combination with RPCT-36A for parallel connection of up to 3 cables to one Type C1 bushing

- For Voltage Range up to 19/33 (36)kV
- Continuous current 630 A
- Conforms to HD 629.1 and IEC60502-4



1 X RPBCT-36A installed in back of
RPCT-36A



2 X RPBCT-36A installed in back of
RPCT-36A

Body Code	Insulation Diameter Range Ø mm	Adaptor Code
RPBCT 36A	16.3 - 19.3	A
	18.3 - 21.0	B
	20 - 24.1	C
	23.1 - 27	D
	25.6 - 29	E
	27.7 - 32.6	F
	30.9 - 36.2	G
	34 - 39.5	H

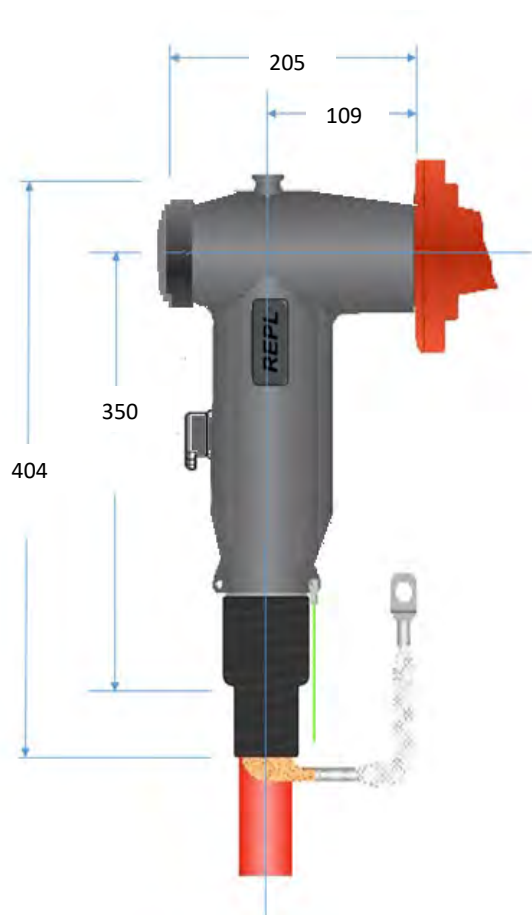
Cable Cross Section (mm²)	Mechanical Lug Code
25	RMVL-C 25-95/35
35	
50	
70	
95	RMVL-C 35-150/35
120	
150	
185	RMVL-C 70-240/35
240	
300	RMVL-C 120-300/35
400	
	RMVL 240-400/35

Full Product Code = Body Code/ Adaptor Code/ Lug Code:

e.g. **RPBCT 36A/F/120-300**

(Kits are normally sets of 3 phases) The RPBCT-36A can only be used in conjunction with a RPCT-36A connector

Screened Asymmetrical Compact Connector 1250A up to 42kV Interface C2



Suitable for connecting all types of polymeric insulated cables to equipment with bushings Type C2 according to EN 50180 and EN 50181.

1. For Voltage Range up to 20.8/36 (42)kV
2. Continuous current 1250 A
3. Conforms to **HD 629.1** and **IEC60502-4**
4. No minimum phase clearance requirements
5. Compact design – asymmetrical body allows minimum depth of connection – especially when multiple connections are used
6. Mounting can be vertical, horizontal, or any angle in between
7. Suitable for Copper or Aluminium Conductors from 35-1000mm²
8. Integrated mechanical screw type lug
9. EPDM moulded body with semi-conductive outer layer
10. Easy to install with comprehensive instructions included in each kit
11. Each connector body is factory tested for partial discharge and AC withstand to ensure 100% reliability

Standard Kit Contents:

- Set of 3 separable connector bodies and insulating back plug
- Set of 3 Silicon Stress Control Elements
- Set of 3 mechanical type lug and connecting stud
- Earthing connections and mastic sealants
- Installation materials and instructions

Body Code	Insulation Diameter Range Ø mm	Adaptor Code
RPCT 42A	28.2 - 32.3	A
	31.1 - 35.7	B
	35.0 - 39.1	C
	37.2 - 41.6	D
	40.1 - 44.8	E
	42.9 - 47.9	F
	46.5 - 51.9	G
	50.0 - 56.0	H

Cable Cross Section (mm ²)	Mechanical Lug Code
185	
240	RMVL-C 240-400/35
300	
400	RMVL-C 300-630/35
500	
630	RMVL-C 500-800/35
800	
1000 (Solid)	

Full Product Code = Body Code/ Adaptor Code/ Lug Code:

e.g. **RPCT 42A/F/300-630**

(kits are normally sets of 3 phases) The RPCT-36A can only be used in conjunction with a RPCT-36A connector

Screened Asymmetrical Branch Connector 1250A up to 42kV Interface C2



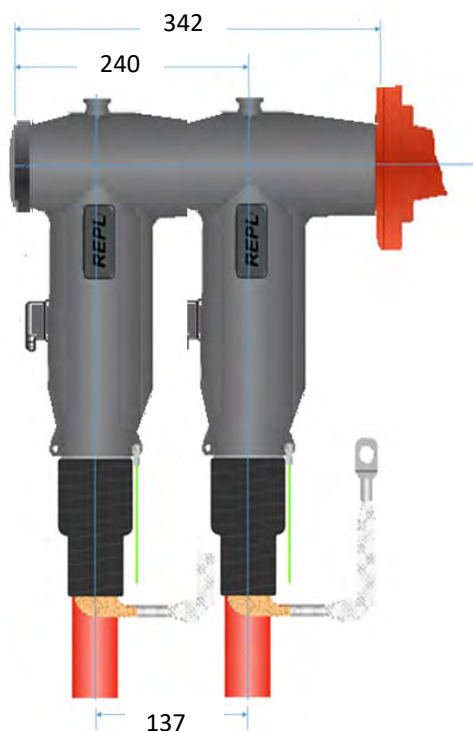
RPBCT-42A

Standard Kit Contents:

- Set of 3 separable branch connector bodies
- Set of 3 Silicon Stress Control Elements
- Set of 3 screw type lug and extension stud
- Earthing connections and mastic sealant
- Installation materials and instructions

Use in combination with RPCT-42A for parallel connection of 2 cables to one Type C2 bushing

- For Voltage Range up to 20.8/36 (42)kV
- Continuous current 1250 A
- Conforms to **HD 629.1** and **IEC60502-4**



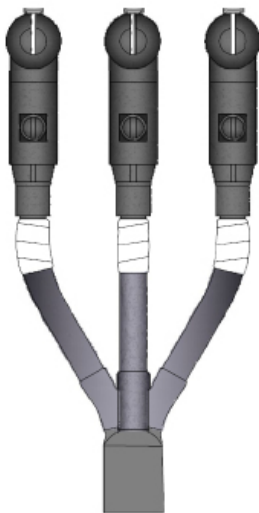
Body Code	Insulation Diameter Range Ø mm	Adaptor Code
RPBCT 42A	28.2 - 32.3	A
	31.1 - 35.7	B
	35.0 - 39.1	C
	37.2 - 41.6	D
	40.1 - 44.8	E
	42.9 - 47.9	F
	46.5 - 51.9	G
	50.0 - 56.0	H

Cable Cross Section (mm²)	Mechanical Lug Code
185	RMVL-C 240-400/35
240	
300	
400	
500	RMVL-C 300-630/35
630	
800	RMVL-C 500-800/35
1000 (Solid)	

Full Product Code = Body Code/ Adaptor Code/ Lug Code:

e.g. **RPBCT 42A/F/300-630**

(Kits are normally sets of 3 phases) The RPBCT-42A can only be used in conjunction with a RPCT-42A connector



RHTK-X

Trifurcating sealing for 3 core MV cables

RHTK X is a method to seal and protect the crutch and exposed cores of 3 core medium voltage cables using Heat Shrinkable insulating breakout and 3 insulated core sleeves. To be used in conjunction with REPL range of separable connectors.

The kit contains the breakout, sleeves, ad necessary mastic and earthing components to trifurcate 3 core XLPE/CTS/SWA cables.



RHTK Trifurcating Sealing for 3 core cables

		RPAE		RPCT-24C RPBCT-24C	RPCT-36C RPBCT-36C	
Max System Voltage:		11	24	11	24	36
EN 50180 Bushing Type:		A	A	C	C	C
Cross Section Range:		(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)
Trifurcating Kit Size:	RHTK X-S	35-120	35-95	35-120	35-95	
	RHTK X-M	70-185	70-185	70-185	70-185	50-120
	RHTK X-L	185-400	185-400	185-400	185-400	150-400



Unscreened cable adaptor for Type C bushing up to 24kV

The REPL unscreened connector system is a right angled adapter designed to fit over standard MV cable terminations when used with equipment bushings to Type C according to EN 50180 and EN 50181.

It provides insulation enhancement and can be easily disconnected for testing and then reconnected with standard tooling under dead break conditions. The body is made from Silicon rubber based material with excellent anti-tracking properties. The body and termination are not screened and therefore during operation the surfaces will be considered live and must not be touched.

- RUSK-17: For Voltage Range 6/10(12)kV up to 12.7/15(17.5)kV
- RUSK-24: For Voltage Range 12/20 (24)kV
- Kit contains M12/M16 stud connection
- For connection to C type bushings according to EN 50180 and EN 50181
- Tested to CENELEC HD 629.1
- One size is suitable for all cable types from 35 - 300mm²
- Easy to install with comprehensive instructions included in each kit
- Unlimited shelf life at normal storage temperatures

Product Code	Kit Contents	Max Voltage	Bushing Type
RUSK-17	Set of 3 moulded adaptors + installation grease, M16 to M12 threaded stud, washer and nut	8.7/15 (17.5)kV	630A, M16 bolted according to EN50180 / 50181
RUSK-24	Set of 3 moulded adaptors + installation grease, M16 to M12 threaded stud, washer and nut	12/20 (24)kV	630A, M16 bolted according to EN50180 / 50181



Flexible Insulating Bushing Boot Kit to provide insulation enhancement for MV cable terminations installed in dry air filled cable boxes up to 24kV

The RCFB flexible insulating boot is a cold applied system to provide increased insulation for medium voltage cable terminations. They are used in switchgear and transformer cable boxes where the air clearances are not sufficient to prevent electrical flashover due to high humidity or rodents. The boots are manufactured from a highly insulating and anti-track material with excellent weathering properties for a durable long life installation. The boot allows for either a straight or right angled configuration and will fit over standard Heat Shrinkable or cold applied terminations. The boots are installed easily without special tooling and can be removed for testing and then reinstalled



RCFB-1 Boot Kit

RCFB-0
(Reducing Adaptor for smaller bushings 30-45mm diameter)

Kit Contents (RCFB-1 to 4):

- Set of 3 Elastomeric flexible bushing boots
- Silicone Grease
- Installation Instructions

Kit Contents (RCFB-0 reducing adaptor)

- Set of 3 Elastomeric bushing adaptors
- Silicone Grease
- Installation Instructions

- Unlimited shelf life
- Fully tested in accordance to **HD 629.1, IEC 60502-4**
- Kits designed to cover a wide range of cable sizes and bushing diameters (smaller bushings require RCFB-0 adaptor)
- Works with standard Heat Shrinkable or Cold Shrinkable terminations

Kit Number	Product	Colour	Maximum Voltage	Cable Range	Bushing Diameter Range
RCFB-0	Set of 3 reducing adaptors	RED	17.5kV	-	30-45mm
RCFB-1	Set of 3 boots	RED	17.5kV	35-630mm ²	46-70mm
RCFB-3	Set of 3 boots	GREY	24kV	25-400mm ²	46-70mm
RCFB-4	Set of 3 boots	GREY	24kV	400-630mm ²	46-70mm



RHSB/RHRB



Heat Shrinkable Straight and Right Angle Insulating Bushing Boot Kits

Heat Shrinkable Insulating Boots can be used to insulate bushings in medium voltage cable boxes up to 36kV, particularly where the normal clearance between phase to phase and phase to earth is less than the required value. These boots provide protection against flashover in the event of any surge impulse, high humidity or rodent menace contact. The boots are made from thermally stabilised cross linked material for excellent insulation and weather resistant properties. The boots are internally coated with a hot melt adhesive.

- Unlimited shelf life
- Kits designed to cover a wide range of cable sizes and bushing diameters
- Works with standard Heat Shrinkable terminations

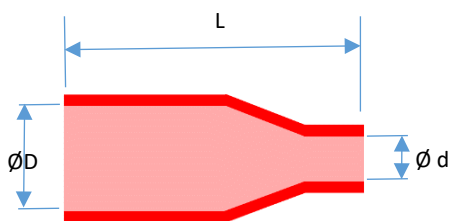
RHRB

Right Angled Heat Shrinkable Boot



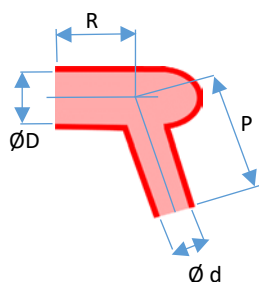
RHSB

Straight Heat Shrinkable Boot



RHSB – Straight Heat Shrinkable Boot

Product Code	Voltage kV	Cable Size Range mm ²	ØD (E-S) mm	Ød (E-S) mm	L (S) mm
RHSB-1-17	Up to 17.5	35 - 95mm ²	80 - 33	34 - 20	225
RHSB-2-17	Up to 17.5	95 - 400mm ²	80 - 33	58 - 20	225
RHSB-3-17	Up to 17.5	400 - 630mm ²	95 - 39	67 - 39	225
RHSB-2-24	24	95 - 300mm ²	80 - 33	58 - 20	225
RHSB-3-36	36	95 - 630mm ²	140 - 50	90 - 55	350



RHRB – Right Angle Heat Shrinkable Boot

Product Code	Voltage kV	Cable Size Range mm ²	ØD (E-S) mm	Ød (E-S) mm	R (S) mm	P (S) mm
RHRB-1-17	Up to 17.5	35 - 95	70 - 37	36 - 20	100	130
RHRB-2-17	Up to 17.5	120 - 300	70 - 37	50 - 27	110	140
RHRB-3-17	Up to 17.5	120 - 630	95 - 37	67 - 27	120	140
RHRB-1-24	24	95 - 300	95 - 37	67 - 27	120	140
RHRB-2-24	24	95 - 500	95 - 37	67 - 27	120	140
RHRB-3-36	36	95 - 630	145 - 72	65 - 34	150	155

RBG

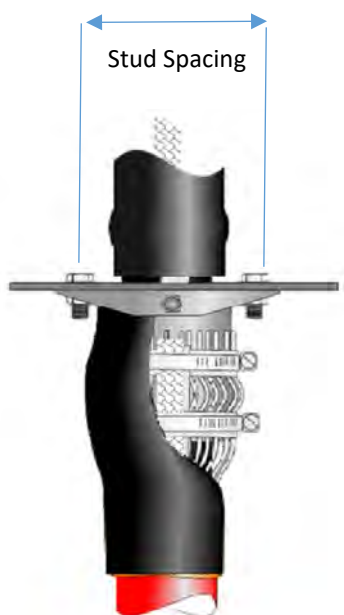
Bolted "Top Hat" Cable Armour Gland for MV cable boxes

The RBG range of glands are designed for use in conjunction with medium voltage terminations in cable boxes with entry hole flange stud spacing's to BS2562.

They provide a moisture tight seal and an earth take off point and connection for the cable armour wires. All kits are supplied with the metallic gland body, sealing tubing's or breakout, all hose clips and bolts, nuts, washers and full installation instructions. The sealing tubing can be either Heat Shrinkable or Cold Shrinkable depending upon the installation method to be used.

The gland body is made of galvanised steel for 3 core versions, and non-ferrous aluminium for single core versions.

The gland kits are available with either Heat Shrinkable sealing tubes or Cold Shrinkable.



RBG (Bolted gland kit for 3core SWA cables)

Product Code	Sealing Tube Type	Stud Spacing mm x mm	Cable Size Range mm ²			
			7.2kV	12kV	24kV	36kV
RBG-1	Heat Shrink	Type X	16 - 95	16 - 95	35 - 70	-
RBG-CS1	Cold Shrink	66 x 66				
RBG-2	Heat Shrink	Type Y	95 - 400	95 - 400	50 - 240	35 - 150
RBG-CS2	Cold Shrink	86 x 95				

RBG – A (Bolted gland kit for 1core AWA cables – Set of 3)

Product Code	Sealing Tube Type	Stud Spacing mm x mm	Cable Size Range mm ²			
			7.2kV	12kV	24kV	36kV
RBG-A1	Heat Shrink	Type X	95 - 630	70 - 630	50 - 630	70 - 630
RBG-CSA	Cold Shrink	66 x 66	400 - 630	300 - 630	185 - 630	70 - 630

RBG – T (Bolted gland kit for 3x1core triplex cables)

Product Code	Breakout Type	Stud Spacing mm x mm	Cable Size Range mm ²	
			12kV	24kV
RBG-T1	Heat Shrink	Type X 66 x 66	35 - 95	35 - 50
RBG-T2	Heat Shrink	Type Y 86 x 95	95 - 300	50 - 240



Heat Shrinkable Cable Gland for unarmoured MV cable sealing

Heat Shrinkable Cable Sealing Glands provide an excellent watertight and fume tight seal where cables enter connection boxes or pass through bulkheads. The gland kit consists of a three-part assembly- a rigid plastic nut, O-ring seal, and threaded body with a Heat Shrinkable seal to shrink onto the cable sheath.

The nut is tightened onto the body to create a seal between the walls of the box / bulkhead and the Heat Shrinkable tube is shrunk onto the sheath to complete the installation.

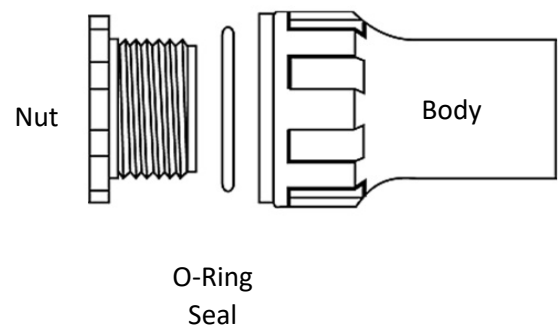
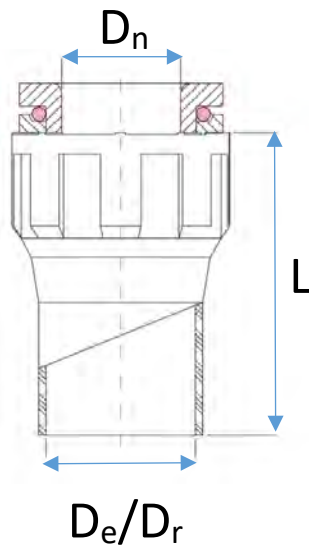
To ensure a moisture tight seal, the heat shrink tube has an inner coating of hot melt adhesive.

Two sizes are available to suit a range of cables with overall diameters from 19mm to 69mm.

- Pressure sealing up to 170kPa (1.7 bar)
- Range taking – 2 sizes cover cables from 19mm to 69mm diameter
- Continuous operating temperature : -55°C to +90°C

Materials:-

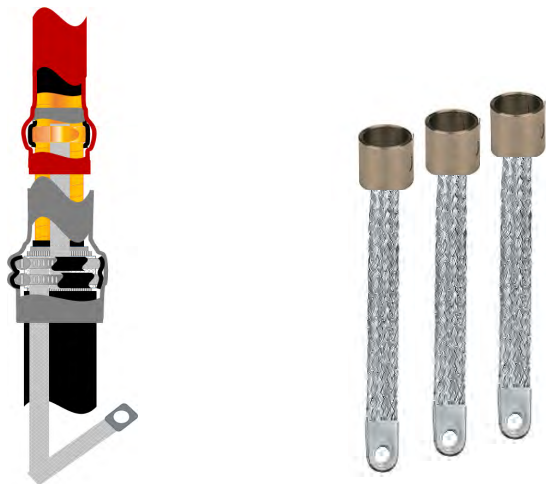
- Moulded body : flame retardant polyolefin Heat Shrinkable
- Nut : Nylon
- O-Ring : Rubber



RHSCG – Heat Shrinkable Cable Gland

Product Code	After Recovered Length L	As Supplied Tube Diameter De	Fully Recovered Tube Diameter Dr	Body/Nut Internal Diameter Dn	Drill Size Ø	Overall Diameter of Body/Nut
	mm	min	max	mm	mm	mm
RHSCG-4	112 ± 5	45	19	41	51	70
RHSCG-5	175 ± 5	70	36	74	90	105

Metallic Screen/Armour connection and sealing solutions



RSEK

Solderless earth kit for copper tape screen

RSEK solderless earth connection kits provide a quick and safe connection point from copper tape screens on medium voltage cables up to 42kV. The kits use non-ferrous constant force springs to clamp a tinned copper braid which has a lug at the other end which can then be connected to the equipment earth point.

They can be used in conjunction with Heat or Cold Shrinkable terminations on cables with a copper tape screen.

They are supplied in sets of 3 phases.

For armoured cables, the braids can be used in conjunction with a bolted cable gland for indoor cable boxes, or with a remote earth kit on outdoor pole mounted application.

RSAK

Earth connection kit for SWA/AWA cables



RSAC Armour earthing kits provide a method of taking a connection from the armour wires of MV cables.

The kit includes a non-ferrous support ring and stainless worm drive clamp with a tinned copper braid, mastic sealing tape and a heavy wall adhesive lined Heat Shrinkable tube to seal the connection.

The kits can be used with aluminium wire armours on single core cables, or galvanised steel armour wires on 3 core cables.

RSEK-ATA

Solderless Earth Connection for Single Core XLPE cables with Aluminium Water Seal

RSEK-ATA solderless earth connection kits provide a quick and safe connection point for AL tape sealed medium voltage cables up to 42kV.

The kits use constant force springs to clamp tinned copper braids which can then be connected to earth points.

Kits are available in a set of 3, and contain Heat Shrinkable Sleeves.



RSEK

RSEK Solderless Earth Kit for copper tape screen (Set of 3)

Product Code	Core Diameter Range Ø mm	Braid Area mm ²	Cable Size Range mm ²				
			7.2kV	12kV	17.5kV	24kV	36kV
RSEK-1	14 - 22	16	35 - 95	35 - 70	50 - 95	50	-
RSEK-2	18 - 29	25	95 - 400	95 - 300	95 - 240	70 - 150	50 - 95
RSEK-3	31 - 50	25	500 - 630	300 - 630	300 - 630	185 - 630	120 - 400
RSEK-4	40 - 70	25	-	800 - 1000	800 - 1000	800 - 1000	500 - 630

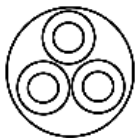
RSAK

RSAK Solderless Earth Kit for AWA 1 core polymeric cables (Set of 1)



Product Code	Armour Support Diameter Ø mm	Braid Area mm ²	Cable Size Range 1 x mm ²				
			7.2kV	12kV	17.5kV	24kV	36kV
RSAK-1	35mm	25	50 - 300	50 - 185	50 - 120	50 - 120	-
RSAK-2	50mm	35	400 - 630	240 - 630	150 - 500	150 - 400	50 - 240
RSAK-3	70mm	50	-	800 - 1000	630 - 1000	400 - 1000	300 - 1000

RSAK Solderless Earth Kit for SWA 3 core polymeric cables (Set of 1)



Product Code	Armour Support diameter Ø mm	Braid area mm ²	Cable Size Range 3 x mm ²				
			7.2kV	12kV	17.5kV	24kV	36kV
RSAK-2	50mm	35	50 - 120	50 - 120	50 - 70	-	-
RSAK-3	70mm	50	150 - 400	150 - 300	95 - 185	50 - 120	50 - 95
RSAK-4	90mm	50	-	400	240 - 400	150 - 400	120 - 300

RSEK-ATA

RSEK-ATA Solderless Earth Kit for 1 core XLPE cables (Set of 3)

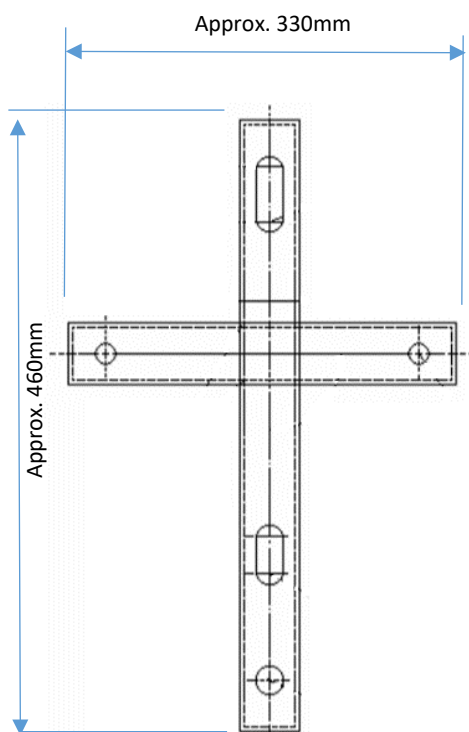
Product Code	Core Diameter Range Ø mm	Cable Type mm ²	Cable Size Range mm ²		
			12kV	24kV	36kV
RSEK-1ATA	14 - 22	1 core/AWA	16 - 95	35 - 50	-
RSEK-2ATA	23 - 37	1 core/AWA	120 - 400	95 - 240	50 - 240
RSEK-3ATA	31 - 50	1 core/AWA	400 - 1000	300 - 630	300 - 630
RSEK-4ATA	40 - 70	1 core/AWA	-	500 - 1000	500 - 1000

RINS/ISB

Stand-off support insulator and support bracket for mounting of MV cable terminations

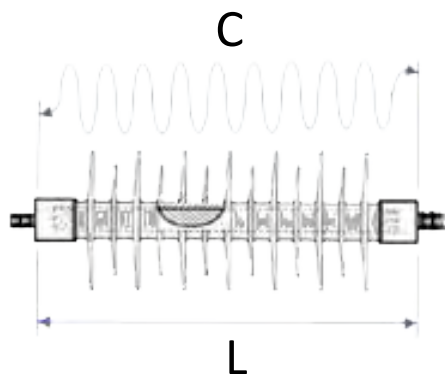
The RINS and ISB are used to mount outdoor cable terminations onto poles or other suitable structures for connection onto overhead lines.

RINS consist of a fibreglass core covered by a weatherproof silicone sleeve with alternative length sheds and mild steel caps at both ends with threaded mounting bars. Three versions are available based on voltage levels of 24kV and 36kV and are used in conjunction with the ISB galvanised steel mounting bracket to provide suitable clearance between the termination cable lug and grounded metal. The composite insulator design offers significant advantage over glass or porcelain alternatives as it is better suited to highly polluted areas and has good resistance to UV radiation and damage from vandals.



RINS Stand Off Insulator (Set of 3)

Product Code	Maximum System Voltage	Length L mm	Creepage C mm
RINS 24	24kV	265	720
RINS 36	36kV	410	1320





REPL Cable Joints are established in power networks worldwide up to 36kV.

Using our expertise in materials technology combined with deep working knowledge of cable systems, our designers have developed a range of products for jointing and sealing power cables using a variety of methods for reinstating the cable insulation layers and providing outer protection.

For low voltage cables up to 1.9/3.3(3.6)kV, our Heat Shrinkable cable system offers options for different cable types and also includes pot end kits for sealing cables under voltage and cable shorting kits for cable abandonment where out of commission cables have to be left in a safe de-energised status.

The installer has the choice of Heat Shrinkable or Cold Shrinkable systems for medium voltage cables from 3.8/6.6(7.2)kV up to 19/33(36)kV.

The joints can be configured for different cable configurations such as transitions from paper insulated to polymeric cables, three core to single core, armoured to unarmoured etc.

Cable joint kits can be supplied complete with either compression or mechanical type connectors to suit installer preference.

The details in following section cover the most common cable configurations to be jointed, but our flexible design and supply chain allow us to easily modify the kits to specific customer requirements if necessary.

	Technology	Voltage Range	Part Code	Description	Page
	Heat Shrink	< 3.6kV	RHSJ-(1-3)	Low Voltage Cable Jointing System	44
	Heat Shrink	>6.6 - 36kV	RHSJ-(7-36)	Medium Voltage Heat Shrinkable Straight Cable Jointing System	52
	Cold Shrink	>6.6 - 36kV	RCSJ-(7-36)	Medium Voltage Cold Shrinkable Jointing System	61

RHJ joints provide a flexible method to connect and seal power cables constructed without insulation screen (<3.6kV). Using established Heat Shrinkable tubing and mastics, the joints are easily and quickly installed in buried or above ground installations at any orientation up to fully vertical cable runs.

RHJ – Joint Designer for cables up to 3.6kV

The coding system below allows installers to specify the correct joint based on application and cable type.

The joint code is made up of 5 elements as follows:

<u>XXXXX</u>	<u>- V</u>	<u>- YY</u>	<u>- nnn - nnn</u>	<u>- N/C</u>	<u>Connector Options</u>
					See information below
<u>Joint Type</u>	<u>Voltage Rating</u>	<u>Cable Insulation Type</u>	<u>Cable Cross Section Range</u>	<u>No. of Cores</u>	
RHSJU = Unarmoured cable Straight Joint	1 = max 0.6/1(1.2)kV	X = Plastic insulation	mm² - mm² = min- max range of joint	1 = 1 Core	
RHSJA = Armoured cable Straight Joint	3 = max 1.9/3.3(3.6)kV	P = Paper insulation		2 = 2 Core	
RHUES = Live End Seal for unarmoured cables		PX = Plastic to paper		3 = 3 Core	
RHAES = Live End Seal for armoured cables				4 = 4 Core	
RHEK = Shorting Kit for cable abandonment				5 = 5 Core	

Connector Options

The standard joints are supplied without connectors. (except 1.5-6mm² which have pre-insulated crimped connectors included as standard.) For other sizes, they can be included in the kits by adding the following suffix to the product code:-

- /MC = Mechanical connectors supplied

Examples:

RHSJU – 1X 120-185-1 – Heat Shrinkable Straight Joint for single core 0.6/1 kV unarmoured XLPE or PVC insulated cables between 120 and 185mm², supplied without connectors.

RHSJA – 3X 185-400-3-MC – Heat Shrinkable Straight Joint for three core 0.6/1 kV armoured XLPE or PVC insulated cables between 185 and 400mm², supplied with mechanical connectors.

RHSJA – 3PX 185-400-3-MC – Heat Shrinkable Transition Straight joint for three core 1.9/3.3 kV armoured XLPE or PVC insulated cable to Paper insulated armoured cables between 185 and 400mm², supplied with mechanical connectors.



Unarmoured Cable Straight Joint

Utilising REPL Heat Shrinkable tubes, these joint kits are suitable for jointing low voltage unarmoured fixed or flexible cables with XLPE, PVC or EPR insulation up to 1.2kV, e.g. NYY, H07RN-F types.

Suitable for direct burial or cable trays either horizontal or vertical.



Features:

- Designed to comply to EN50393, CENELEC HD 623 S1
- Unlimited shelf life
- Mechanical durability equal to the cable sheath
- For use indoor, outdoor and buried environments
- Resistant to chemicals, UV light and water ingress
- Suitable for use with mechanical connector available as an option
- Voltage Level: $U_0/U (U_{max}) = 0.6/kV (1.2kV)$
- Cable Range: 1 core unarmoured cables 10 to 1000mm²
Up to 4 core unarmoured cables 1.5 to 400mm²

Kit Contents:

- Heat Shrinkable protection tube with adhesive sealing
- Medium Wall core insulation tubes
- Mastic sealant tapes
- Installation instructions
- Option to include mechanical connectors in kit

Product Code	No. of Cores	Cable Range	LV Connector Sector Range	Overall Length	Connector Options
	1	mm ²		mm	
RHSJU – 1X 10-16-1	1	10 - 16	-	250	Mechanical Connector optional
RHSJU – 1X 25-50-1	1	25 - 50	25 - 50	300	Mechanical Connector optional
RHSJU – 1X 50-95-1	1	50 - 95	50 - 70	350	Mechanical Connector optional
RHSJU – 1X 120-185-1	1	120 - 185	95 - 150	400	Mechanical Connector optional
RHSJU – 1X 240-300-1	1	240 - 300	150 - 240	450	Mechanical Connector optional
RHSJU – 1X 185-400-1	1	185 - 400	185 - 300	500	Mechanical Connector optional
RHSJU – 1X 300-630-1	1	300 - 630	300 - 500	550	Mechanical Connector optional
RHSJU – 1X 800-1000-1	1	800 - 1000	-	600	Mechanical Connector optional

Product Code	No. of Cores	Cable Range	LV Connector Sector Range	Overall Length	Connector Options
	X	mm ²		mm	
RHSJU – 1X 1.5-2.5-X	2 - 37	1.5 - 2.5		200	Insulated Compression Connectors included
RHSJU – 1X 4-6-4	4	4 - 6		250	Insulated Compression Connectors included
RHSJU – 1X 10-16-4	4	10 - 16		400	Mechanical Connector optional
RHSJU – 1X 25-50-4	4	25 - 50	25 - 50	500	Mechanical Connector optional
RHSJU – 1X 50-95-4	4	50 - 95	50 - 70	600	Mechanical Connector optional
RHSJU – 1X 120-185-4	4	120 - 185	95 - 150	800	Mechanical Connector optional
RHSJU – 1X 240-300-4	4	240 - 300	150 - 240	1000	Mechanical Connector optional
RHSJU – 1X 185-400-4	4	185 - 400	185 - 300	1000	Mechanical Connector optional



Armoured Cable Straight Joint up to 0.6/1(1.2)kV

Utilising REPL Heat Shrink tubes, these joint kits are suitable for jointing low voltage wire armoured cables with XLPE or PVC insulation up to 1000V. Due to their compact dimensions and small profile, they are ideal for use in confined areas such as cable trays but can also be used in direct buried applications and are suitable for vertical cable runs.



Features:

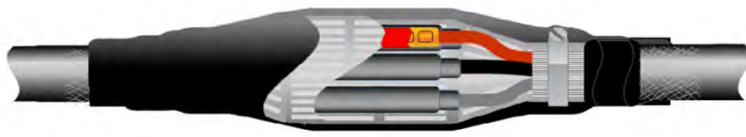
- Designed to comply to **EN50393, CENELEC HD 623 S1**
- Unlimited shelf life
- Mechanical durability equal to the cable sheath
- For use indoor, outdoor and buried environments
- Resistant to chemicals, UV light and water ingress
- Suitable for use with mechanical or compression connectors (available as an option)
- Voltage Level : $U_0/U (U_{max}) = 0.6/1kV (1.2kV)$
- Cable Range : 1 core AWA cables 50 - 630mm²
2 - 4 core SWA cables 1.5 to 400mm²

Kit Contents:

- Thick wall outer protection tube with adhesive sealing
- Medium wall core insulation tubes
- Mastic sealant tapes
- Earth Continuity material (braid or aluminium cage depending upon size)
- Constant force springs/worm drive clamps & armour Support Rings
- Installation instructions
- Option to include mechanical connectors in kit

SWA cables Product Code	No. of Cores	Cable Range	Overall Length	LV Connector Sector Range	Armour Continuity Method	Connector Options
	X	mm ²	mm	mm ²		
RHSJA – 1X 1.5-2.5-X	2 - 37	1.5 - 2.5	300	-	Tinned copper mesh	Insulated compression connectors included
RHSJA – 1X 4-6-4	4	4 - 6	400	-	Tinned copper mesh/braid	Insulated compression connectors included
RHSJA – 1X 10-16-4	4	10 - 16	500	-	Tinned copper mesh/braid	Mechanical Connector optional
RHSJA – 1X 25-50-4	4	25 - 50	600	25 - 50	Tinned copper mesh/braid	Mechanical Connector optional
RHSJA – 1X 50-95-4	4	70 - 120	700	50 - 70	Aluminium Cage	Mechanical Connector optional
RHSJA – 1X 120-185-4	4	120 - 185	900	95 - 150	Aluminium Cage	Mechanical Connector optional
RHSJA – 1X 240-300-4	4	240 - 300	1200	150 - 240	Aluminium Cage	Mechanical Connector optional
RHSJA – 1X 185-400-4	4	185 - 400	1200	185 - 300	Aluminium Cage	Mechanical Connector optional

AWA cables Product Code	No. of cores	Cable Range	Overall Length	Armour Continuity Method	Connector Options
	1	mm ²	mm		
RHSJA – 1X 50-95-1	1	50 - 95	500	Tinned copper mesh/braid	Mechanical Connector optional
RHSJA – 1X 120-185-1	1	120 - 185	600	Tinned copper mesh/braid	Mechanical Connector optional
RHSJA – 1X 240-300-1	1	240 - 300	650	Aluminium Cage	Mechanical Connector optional
RHSJA – 1X 185-400-1	1	185 - 400	650	Aluminium Cage	Mechanical Connector optional
RHSJA – 1X 300-630-1	1	300 - 630	700	Aluminium Cage	Mechanical Connector optional
RHSJA – 1X 800-1000-1	1	800 - 1000	700	Aluminium Cage	Mechanical Connector optional



Armoured Cable Straight Joint up to 1.9/3.3(3.6)kV

Heat Shrinkable Straight Joints for system voltages up to 3.6kV follow the same construction as the 1.2kV design, but include enhanced insulation level around the core conductors by adding mastic insulating tapes.



Features:

- Designed to comply to **EN50393, CENELEC HD 623 S1**
- Unlimited shelf life
- Mechanical durability equal to the cable sheath
- For use indoor , outdoor and buried environments
- Resistant to chemicals , UV light and water ingress
- Suitable for use with mechanical or compression connectors (available as an option)
- Voltage Level : $U_0/U (U_{max}) = 1.9/3.3kV (3.6kV)$
- Cable Range : 1 core AWA cables 120 to 630mm²
3 core SWA cables 16 to 400mm²

Kit Contents:

- Thick Wall outer protection tube with adhesive sealing
- Red Medium Wall core insulation tubes/red mastic rated up to 3.6kV
- Mastic sealant tapes
- Earth Continuity components (aluminium cage)
- Constant force springs/worm drive clamps & armour support rings
- Installation instructions
- Option to include mechanical or compression connectors in kit

SWA cables 3 core Up to 3.6kV Product Code	No. of Cores	Cable Range	Overall Length	LV Connector Sector Range	Armour Continuity Method	Connector Options
	X	mm ²	mm	mm ²		
RHSJA – 3X 16-50-3	3	16 - 50	600	25 - 50	Tinned Copper Mesh/ Braid	Compression or mechanical optional
RHSJA – 3X 50-95-3	3	50 - 95	700	50 - 70	Aluminium Cage	Compression or mechanical optional
RHSJA – 3X 120-185-3	3	120 - 185	900	150 - 240	Aluminium Cage	Compression or mechanical optional
RHSJA – 3X 185-400-3	3	185 - 400	1100	185 - 300	Aluminium Cage	Compression or mechanical optional

AWA cables 1 core Up to 3.6kV Product Code	No. of Cores	Cable Range	Overall Length	Armour Continuity Method	Connector Options
	X	mm ²	mm		
RHSJA – 3X 50-95-1	1	50-95	500	Tinned Copper Mesh/ Braid	Compression or mechanical optional
RHSJA – 3X 120-185-1	1	240 - 300	600	Tinned Copper Mesh/ Braid	Compression or mechanical optional
RHSJA – 3X 240-300-1	1	240 - 300	650	Aluminium Cage	Compression or mechanical optional
RHSJA – 3X 400-630-1	1	400 - 630	700	Aluminium Cage	Compression or mechanical optional



Cable Straight Joint for Transition (PILC/SWA to Plastic/SWA)

These joint kits are suitable for jointing low voltage polymeric insulated wire armoured cables onto paper insulated, lead sheathed and wire armoured cables (PILC/SWA).



Features:

- Unlimited shelf life
- Mechanical durability equal to the cable sheath
- For use indoor , outdoor and buried environments
- Resistant to chemicals , UV light and water ingress
- Suitable for use with mechanical or compression connectors (available as an option)
- Voltage Level : $U_0/U (U_{max}) = 0.6/1kV (1.2kV)$
- Cable Range : 1 - 4 core SWA cables 25 to 400mm²

Kit Contents:

- Thick Wall outer protection tube with adhesive sealing
- Medium Wall core insulation tubes and connector insulation tubes
- Heat Shrinkable cable breakout (for 2 -4 core cables)
- Mastic sealant tapes
- Earth continuity material (aluminium cage)
- Constant force springs/worm drive clamps & armour support rings
- Installation instructions
- Option to include mechanical or compression connectors in kit

SWA cables 1 - 4 core Product Code	No. of Cores	Cable Range	Overall Length	Armour Continuity Method	Connector Options
	X	mm ²	mm		
RHSJA – 1PX 25-50-X	1 - 4	25 - 50	800	Aluminium Cage	Mechanical connector
RHSJA – 1PX 50-95-X	1 - 4	50 - 95	900	Aluminium Cage	Mechanical connector
RHSJA – 1PX 120-185-X	1 - 4	120 - 185	1100	Aluminium Cage	Mechanical connector
RHSJA – 1PX 185-400-X	1 - 4	185 - 400	1400	Aluminium Cage	Mechanical connector



Low Voltage Cable End Seal (Voltage Resistant)

RHES kits provide a method to seal and insulate cables rated up to 1.2kV which may be temporary out of commission, or newly laid and requiring testing before final connection.

The end seals can be safely buried and the cables energised.

The kits are made up of Heat Shrinkable End Caps for core insulation and a larger overall end cap to seal and protect. The outer cap is marked with a “lightning flash” for indication the cable may be energised. The cable is screened with tinned copper mesh to provide an earthed metallic layer. The kits are configured for a wide range of cable types.

Features:

- Unlimited shelf life
- Mechanical durability equal to the cable sheath
- For use indoor, outdoor and buried environments
- Resistant to chemicals, UV light and water ingress
- Voltage Level : $U_0/U (U_{max}) = 0.6/1kV (1.2kV)$
- Cable Range : 1 - 5core SWA cables 1.5 to 630mm²

Kit Contents:

- Heat Shrinkable end caps for conductor cores
- Heat Shrinkable end cap for outer protection (flash marked)
- Mastic sealant tapes
- Earth continuity material
- Installation instructions

Unarmoured cable (without metallic screen)	No. of Cores	Cable Range
Product Code	X	mm ²
RHUES – 1X 10-16-X	1 - 5	10 - 16
RHUES – 1X 25-50-X	1 - 5	25 - 50
RHUES – 1X 70-120-X	1 - 5	70 - 120
RHUES – 1X 120-185-X	1 - 5	120 - 185
RHUES – 1X 240-400-X	1 - 5	240 - 400
RHUES – 1X 400-630- 1	1	400 - 630

Armoured cable (with metallic screen)	No. of Cores	Cable Range
Product Code	X	mm ²
RHAES – 1X 10-16-X	1 - 5	10 - 16
RHAES – 1X 25-50-X	1 - 5	25 - 50
RHAES – 1X 70-120-X	1 - 5	70 - 120
RHAES – 1X 120-185-X	1 - 5	120 - 185
RHAES – 1X 240-400-X	1 - 5	240 - 400
RHAES – 1X 400-630-1	1	400 - 630



Cable Shorting Kit for abandoning cables

RHEK kits provide a method to seal the end of power cables which are no longer in use. In addition to providing protection of the end of the cable from moisture and dust, the kit includes materials to connect all conductors and metallic screens/armours together.

Any accidental energisation of the cables will immediately activate the circuit protective device and prevent electrical shock. The kits are provided with tinned copper braid to provide a fault current rating up to 600Amps for 1 second.

The kits include a green Heat Shrinkable sleeve to indicate the cable is in an earthed state.

Features:

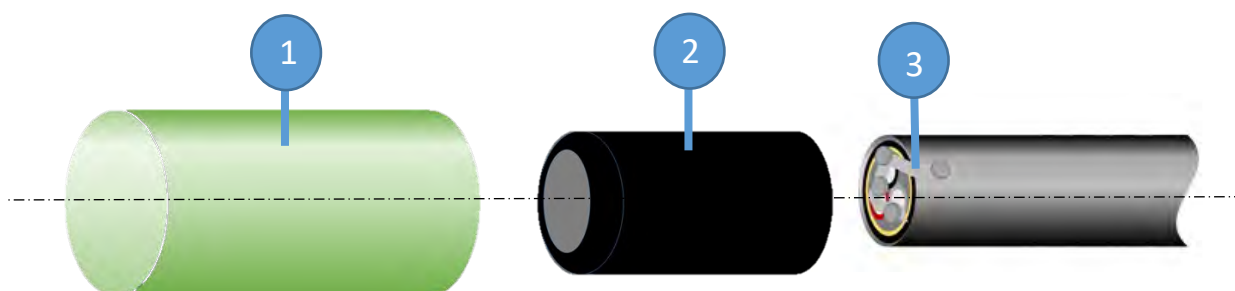
- Unlimited shelf life
- For use indoor, outdoor and buried environments
- Can be used on cables up to 36kV
- Cable Range : 2 - 5 core cables 16 to 400mm²
1 core cables 70 to 1000mm²

Product Code	No. of Cores	Cable Diameter Range
		mm
RHEK – MC1	2 - 5	30 - 60
RHEK – MC2	2 - 5	55 - 80
RHEK – SC3	1*	27 - 49
RHEK – SC4	1*	41 - 70

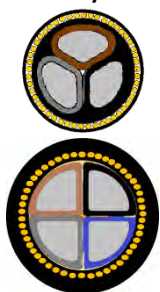
*kit is for 3 x 1 core cables

Kit Contents:

- Heat Shrinkable end cap for outer protection
- Green Heat Shrinkable sleeve
- Tinned copper braid and clout nails
- Installation instructions



See selection chart opposite for typical range of cable types

Cable Types	Voltage Grade	Cable Conductor Cross Sections		Approx. Cable Diameter	Shorting Kit to use			
	kV	mm ²	Sq. inch	Ø mm	RHEK - MC1	RHEK - MC2	RHEK - SC3	RHEK - SC4
WAVEFORM / CONSAC 	1	3x95	-	35	✓			
		3x185	-	46	✓			
		3x240	-	51	✓			
		3x300	-	55	✓	✓		
		4x95	-	38	✓			
		4x185	-	53	✓			
		4x240	-	58	✓	✓		
		4x300	-	63		✓		
PILCSSTA PILCSWA 	1	(4x70)	4 x 0.1"	41	✓			
		(4 x 95)	4 x 0.15"	45	✓			
		(4x120)	4 x 0.2"	50	✓			
		(4x150)	4 x 0.25"	54	✓			
		(4x185)	4 x 0.3"	59	✓	✓		
		(4x240)	4 x 0.4"	65		✓		
		(4x300)	4 x 0.5"	70		✓		
11kV PICAS / PIAS 	12	3x95	-	49	✓			
		3x185	-	60	✓	✓		
		3x300	-	72		✓		
11kV PILCSWA 11kV PILCSTA 	12	(3x70)	3 x 0.1"	50	✓			
		(3x95)	3 x 0.15"	53	✓			
		(3x185)	3X 0.3	63		✓		
		(3 x 240)	3 x 0.4"	68		✓		
		(3x300)	3 x 0.5"	72		✓		
11kV XLPE Triplex 	12	3x1x95	-	27			✓	
		3x1x185	-	33			✓	
		3x1x300	-	38			✓	
11kV XLPE Single Core 	12	1x400	-	43			✓	✓
		1x500	-	46			✓	✓
		1x630	-	51				✓
		1x800	-	56				✓
		1x1000	-	60				✓
33kV Single Core XLPE/CWS XLPE/Lead 	36	1 x 95	-	39			✓	
		1x185	-	44			✓	✓
		1x240	-	46			✓	✓
		1x300	-	49			✓	✓
		1x400	-	52				✓
		1x500	-	56				✓
		1x630	-	60				✓
		1x800	-	65				✓
		1x1000	-	70				✓

RHJ Heat Shrinkable medium voltage joints provide a flexible method to connect power cables with system voltages up to 36kV.

Using established Heat Shrinkable tubing and mastic materials developed specifically for the application, the joints are easily and quickly installed in buried or above ground installation.

The system of reinstating the insulation is common to all types leading to a modular system approach. Depending on the cables to be jointed, the earth continuity and outer protection materials are customised to suit the cable joint configurations.

RHJ – Joint Designed for cables 7kV to 36kV

The coding system below allows installer to specify correct joint based on application and cable type. The joint code is made up of 5 elements plus options suffix as follows:

RHXXX - V - YY - nnn - nnn - C / (O)					Options
					See information below
Joint Type	Voltage Rating	Cable Insulation Type	Cable cross section range	No. of Cores	
RHSJU = Unarmoured cable straight joint	7 = max 3.8/6.6(7.2) kV	X = Plastic insulation		1 = 1 Core	
RHSJA = Armoured cable straight joint	12 = max 6.35/11(12) kV	P = Paper insulation	mm² - mm² =	3 = 3 Core	
RHTJU = Unarmoured trifurcating joint	17 = max 8.7/15(17.5) kV	PX = Plastic to paper (transition)	min- max range of joint		
RHTJA = Armoured trifurcating joint	24 = max 12/22(24) kV	HX = Plastic to paper (transition to HSL type paper cable)			
	36 = max 19/33(36) kV				

Joint Options the following suffix codes indicate options:

- /MC = Mechanical connectors supplied in kit (default)

- Examples:

RHSJU – 12X 95-240-1 – Heat Shrinkable Straight Joint for single core 6/10 kV or 6.35/11 kV unarmoured XLPE or EPR insulated cables between 95 and 240mm², supplied without connectors.

RHSJA – 17X 185-400-3/MC - Heat Shrinkable Straight Joint for three core 8.7/15 kV armoured XLPE or EPR insulated cables between 185 and 400mm², supplied with mechanical connectors.

RHTJA – 33HX 185-400-3/MC - Heat Shrinkable Trifurcating Joint for jointing a three core 19/33 kV PILC type HSL cable to 3 single core armoured polymeric insulated cables between 185 and 400mm², supplied with mechanical connectors.

RHTJU – 33PX 185-400-3/MC - Heat Shrinkable Trifurcating Joint for jointing a three core 19/33 kV PILC/SWA cable to 3 single core unarmoured polymeric insulated cables between 185 and 400mm², supplied with mechanical connectors.

Features:

- Unlimited shelf life of kits
- Fully Tested to **HD629, IEC 60502-4** specifications
- Extensive reference of reliable usage in climates all over the world
- Kits designed to cover a wide range of cable sizes and types
- Mechanical durability equal to the cable sheath
- Resistant to chemicals, UV light and water ingress
- For use indoor, outdoor and buried environments
- Mechanical shear bolted connectors available as an option in kits
- Easy to install with installation instructions included in all kits



Key Components

Each kit is tailored to suit the specific cable types and environment. The key components in the joint are:

1. **Connector System:** to provide a low resistance connection between the phase conductors. REPL RHJ joints can accommodate both compression and mechanical bolted connector systems to the preference of the installer
2. **Insulation System:** to reinstate the respective layers of the cable insulation. Using a combination of Heat Shrinkable tubes with differing electrical properties to ensure the joint can withstand the operating and overload voltage conditions.
Depending on the maximum rated voltage level of the joint, a number of tubes are shrunk over the connector in a pre-determined order. This is complemented with mastics to ensure a void free, reliable insulation reinstatement.
3. **Earth Screen/Armour Continuity:** depending on the cable construction, metallic components are included to connect the cables screens and armouring across the joint to ensure the short circuit fault rating of the cable is maintained and provide mechanical protection equivalent to the cable armouring
4. **Outer Protection:** to provide mechanical impact, corrosion and moisture protection to the joint. The standard system is using heavy wall Heat Shrinkable tubing.



Technical Details for RHJ Heat Shrinkable Jointing System

Voltage Class:	7.2kV	12kV	17.5kV	24kV	36kV
Cross Section Range (mm ²)	25 - 630	35 - 1000	35 - 1000	35 - 1000	35 - 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 , 5 min (kV)	>17	>28.5	>39	>57	>85.5
DC Voltage Withstand , 15min (kV)	>23	>38	>52	>76	>114

For Single & Three Core Polymeric Insulated cables (XLPE / EPR)

RHSJ -(7-36)X



Medium Voltage Straight Joints for Polymeric Insulated Cables up to 36kV

The RHJ-X range of kits are designed for jointing either single or three core cable designs with polymeric (XLPE or EPR) insulation and can be used with both compression and mechanical type connectors.

Typical Kit Contents

(actual components will depend on specific joint type)

- Heat Shrinkable insulation tubing¹
- Heat Shrinkable stress control tubing
- Stress control void filling mastic
- Earth / armour screen continuity materials
- Heavy Wall Heat Shrinkable corrosion protection tubing
- Mastic sealing tapes
- Phase conductor connector²

¹ – Number and type of tubes depends on insulation level

² – Optional, type specified at order

RHSJU – Suitable for unarmoured cable types

RHSJA – Suitable for armoured cable types

Fully tested to the following specifications

- **HD629.1.S2**
- **IEC 60502-4**

7.2 kV

Straight Cable Joint for Polymeric Insulated cables rated at Um= 7.2kV

Conductor Cross Section (mm ²)	Cable Construction	Kit Number Single Core Joint	Kit Number Three Core Joint	*Diameter over Insulation (mm)
35 - 95	No armour	RHSJU 7X 35-95-1	RHSJU 7X 35-95-3	13.5 - 17.6
	Armoured	RHSJA 7X 35-95-1	RHSJA 7X 35-95-3	
95 - 240	No armour	RHSJU 7X 95-240-1	RHSJU 7X 95-240-3	17.6 - 24.4
	Armoured	RHSJA 7X 95-240-1	RHSJA 7X 95-240-3	
120 - 300	No armour	RHSJU 7X 120-300-1	RHSJU 7X 120-300-3	19.0 - 26.6
	Armoured	RHSJA 7X 120-300-1	RHSJA 7X 120-300-3	
185 - 400	No armour	RHSJU 7X 185-400-1	RHSJU 7X 185-400-3	22.1 - 29.7
	Armoured	RHSJA 7X 185-400-1	RHSJA 7X 185-400-3	
400 - 630	No armour	RHSJU 7X 400-630-1	-	29.7 - 35.8
	Armoured	RHSJA 7X 400-630-1	-	

12 kV

Straight Cable Joint for Polymeric Insulated cables rated at Um= 12kV

35 - 95	No armour	RHSJU 12X 35-95-1	RHSJU 12X 35-95-3	14.6 - 20.5
	Armoured	RHSJA 12X 35-95-1	RHSJA 12X 35-95-3	
95 - 240	No armour	RHSJU 12X 95-240-1	RHSJU 12X 95-240-3	20.5 - 27.3
	Armoured	RHSJA 12X 95-240-1	RHSJA 12X 95-240-3	
120 - 300	No armour	RHSJU 12X 120-300-1	RHSJU 12X 120-300-3	22.0 - 29.6
	Armoured	RHSJA 12X 120-300-1	RHSJA 12X 120-300-3	
185 - 400	No armour	RHSJU 12X 185-400-1	RHSJU 12X 185-400-3	25.1 - 32.3
	Armoured	RHSJA 12X 185-400-1	RHSJA 12X 185-400-3	
400 - 630	No armour	RHSJU 12X 400-630-1	-	32.3 - 38.6
	Armoured	RHSJA 12X 400-630-1	-	
800 - 1000	No armour	RHSJU 12X 800-1000-1	-	37.9 - 41.9
	Armoured	RHSJA 12X 800-1000-1	-	

17.5 kV

Straight Cable Joint for Polymeric Insulated cables rated at Um= 17.5kV					
Conductor Cross Section (mm²)	Cable Construction	Kit Number Single Core Joint	Kit Number Three Core Joint	*Diameter over Insulation (mm)	
35 - 95	No armour	RHSJU 17X 35-95-1	RHSJU 17X 35-95-3	17.7 - 21.4	
	Armoured	RHSJA 17X 35-95-1	RHSJA 17X 35-95-3		
95 - 240	No armour	RHSJU 17X 95-240-1	RHSJU 17X 95-240-3	21.4 - 28.2	
	Armoured	RHSJA 17X 95-240-1	RHSJA 17X 95-240-3		
120 - 300	No armour	RHSJU 17X 120-300-1	RHSJU 17X 120-300-3	22.8 - 30.4	
	Armoured	RHSJA 17X 120-300-1	RHSJA 17X 120-300-3		
185 - 400	No armour	RHSJU 17X 185-400-1	RHSJU 17X 185-400-3	25.9 - 33.5	
	Armoured	RHSJA 17X 185-400-1	RHSJA 17X 185-400-3		
400 - 630	No armour	RHSJU 17X 400-630-1	-	33.5 - 39.6	
	No armour	RHSJA 17X 400-630-1	-		
800 - 1000	No armour	RHSJU 17X 800-1000-1	-	43.4 - 47.4	
	No armour	RHSJA 17X 800-1000-1	-		

24 kV

Straight Cable Joint for Polymeric Insulated cables rated at Um= 24kV					
35 - 95	No armour	RHSJU 24X 35-95-1	RHSJU 24X 35-95-3	18 - 25.1	
	Armoured	RHSJA 24X 35-95-1	RHSJA 24X 35-95-3		
95 - 240	No armour	RHSJU 24X 95-240-1	RHSJU 24X 95-240-3	25.1 - 34.2	
	Armoured	RHSJA 24X 95-240-1	RHSJA 24X 95-240-3		
120 - 300	No armour	RHSJU 24X 120-300-1	RHSJU 24X 120-300-3	26.6 - 36.9	
	Armoured	RHSJA 24X 120-300-1	RHSJA 24X 120-300-3		
185 - 400	No armour	RHSJU 24X 185-400-1	RHSJU 24X 185-400-3	31.9 - 39.8	
	Armoured	RHSJA 24X 185-400-1	RHSJA 24X 185-400-3		
300 - 630	No armour	RHSJU 24X 300-630-1	-	36.9 - 45.8	
	Armoured	RHSJA 24X 300-630-1	-		
800 - 1000	No armour	RHSJU 24X 800-1000-1	-	50.0 - 54.1	
	Armoured	RHSJA 24X 800-1000-1	-		

36 kV

Straight Cable Joint for Polymeric Insulated cables rated at Um= 36kV					
35 - 95	No armour	RHSJU 36X 35-95-1	RHSJU 36X 35-95-3	24 - 28.6	
	Armoured	RHSJA 36X 50-95-1	RHSJA 36X 50-95-3		
95 - 240	No armour	RHSJU 36X 95-240-1	RHSJU 36X 95-240-3	28.6 - 35.4	
	Armoured	RHSJA 36X 95-240-1	RHSJA 36X 95-240-3		
120 - 300	No armour	RHSJU 36X 120-300-1	RHSJU 36X 120-300-3	30.0 - 37.6	
	Armoured	RHSJA 36X 120-300-1	RHSJA 36X 120-300-3		
185 - 400	No armour	RHSJU 36X 185-400-1	RHSJU 36X 185-400-3	33.1 - 40.7	
	Armoured	RHSJA 36X 185-400-1	RHSJA 36X 185-400-3		
300 - 630	No armour	RHSJU 36X 300-630-1	-	37.6 - 46.8	
	Armoured	RHSJA 36X 300-630-1	-		
800 - 1000	No armour	RHSJU 36X 800-1000-1	-	46.8 - 54.6	
	Armoured	RHSJA 36X 800-1000-1	-		

For full product code selection, see Page 51

For Single & Three Core Paper Insulated cables



RHSJ-(7-36)P



Medium Voltage Straight Joints for Paper Insulated Cables up to 36kV

The RHJ-P range of kits are designed for jointing either single or three core cable designs with paper insulation and can be used with both compression and mechanical type connectors.

Typical Kit Contents

(actual components will depend on specific joint type)

- Heat Shrinkable insulation tubing¹
- Heat Shrinkable stress control tubing
- Stress control void filling mastic
- Oil Barrier Heat Shrinkable tubing
- Conductive Heat Shrinkable tubing
- Conductive Heat Shrinkable 3 core breakout
- Earth / armour screen continuity materials
- Heavy Wall Heat Shrinkable corrosion protection tubing
- Mastic sealing tapes
- Phase conductor connector²

¹ – Number and type of tubes depends on insulation level

² – Optional, type specified at order

RHSJU – Suitable for unarmoured cable types

RHSJA – Suitable for armoured cable types

Fully tested to the following specifications

- **HD 629.1**
- **IEC 60502-4**
- **IEEE-48**

Straight Cable Joint for Paper Insulated cables rated at Um= 7.2kV

Conductor Cross Section (mm ²)	Cable Construction	Kit Number Single Core Joint	Kit Number Three Core Joint	*Diameter over insulation (mm)
35 - 95	No armour	RHSJU 7P 35-95-1	RHSJU 7P 35-95-3	13.5 - 17.6
	Armoured	RHSJA 7P 35-95-1	RHSJA 7P 35-95-3	
95 - 240	No armour	RHSJU 7P 95-240-1	RHSJU 7P 95-240-3	17.6 - 24.4
	Armoured	RHSJA 7P 95-240-1	RHSJA 7P 95-240-3	
185 - 400	No armour	RHSJU 7P 185-400-1	RHSJU 7P 185-400-3	22.1 - 29.7
	Armoured	RHSJA 7P 185-400-1	RHSJA 7P 185-400-3	
400 - 630	No armour	RHSJU 7P 400-630-1	-	29.7 - 35.8
	Armoured	RHSJA 7P 400-630-1	-	

Straight Cable Joint for Paper Insulated cables rated at Um= 12kV

35 - 95	No armour	RHSJU 12P 35-95-1	RHSJU 12P 35-95-3	14.6 - 20.5
	Armoured	RHSJA 12P 35-95-1	RHSJA 12P 35-95-3	
95 - 240	No armour	RHSJU 12P 95-240-1	RHSJU 12P 95-240-3	20.5 - 27.3
	Armoured	RHSJA 12P 95-240-1	RHSJA 12P 95-240-3	
185 - 400	No armour	RHSJU 12P 185-400-1	RHSJU 12P 185-400-3	25.1 - 32.3
	Armoured	RHSJA 12P 185-400-1	RHSJA 12P 185-400-3	
400 - 630	No armour	RHSJU 12P 400-630-1	RHSJU 12P 400-630-3	32.3 - 38.6
	Armoured	RHSJA 12P 400-630-1	RHSJA 12P 400-630-3	
800 - 1000	No armour	RHSJU 12P 800-1000-1	-	37.9 - 41.9
	Armoured	RHSJA 12P 800-1000-1	-	

RHSJ-(7-36)P

17.5 kV

Straight Cable Joint for Paper Insulated cables rated at Um= 17.5kV

Conductor Cross Section (mm ²)	Cable Construction	Kit Number Single Core Joint	Kit Number Three Core Joint	*Diameter over insulation (mm)
35 - 95	No armour	RHSJU 17P 35-95-1	RHSJU 17P 35-95-3	17.7 - 21.4
	Armoured	RHSJA 17P 35-95-1	RHSJA 17P 35-95-3	
95 - 240	No armour	RHSJU 17P 95-240-1	RHSJU 17P 95-185-3	21.4 - 28.2
	Armoured	RHSJA 17P 95-240-1	RHSJA 17P 95-185-3	
185 - 400	No armour	RHSJU 17P 185-400-1	RHSJU 17P 185-400-3	25.9 - 33.5
	Armoured	RHSJA 17P 185-400-1	RHSJA 17P 185-400-3	
400 - 630	No armour	RHSJU 17P 400-630-1	-	33.5 - 39.6
	Armoured	RHSJA 17P 400-630-1	-	
800 - 1000	No armour	RHSJU 17P 630-1000-1	-	43.4 - 47.4
	Armoured	RHSJA 17P 630-1000-1	-	

24 kV

Straight Cable Joint for Paper Insulated cables rated at Um= 24kV

35 - 95	No armour	RHSJU 24P 35-95-1	RHSJU 24P 35-95-3	18.0 - 25.1
	Armoured	RHSJA 24P 35-95-1	RHSJA 24P 35-95-3	
95 - 240	No armour	RHSJU 24P 95-240-1	RHSJU 24P 95-240-3	25.1 - 34.2
	Armoured	RHSJA 24P 95-240-1	RHSJA 24P 95-240-3	
185 - 400	No armour	RHSJU 24P 185-400-1	RHSJU 24P 185-400-3	31.9 - 39.8
	Armoured	RHSJA 24P 185-400-1	RHSJA 24P 185-400-3	
300 - 630	No armour	RHSJU 24P 300-630-1	-	36.9 - 45.8
	Armoured	RHSJA 24P 300-630-1	-	
800 - 1000	No armour	RHSJU 24P 800-1000-1	-	50.0 - 54.1
	Armoured	RHSJA 24P 800-1000-1	-	

36 kV

Straight Cable Joint for Paper Insulated cables rated at Um= 36kV

35 - 95	No armour	RHSJU 36P 35-95-1	RHSJU 36P 35-95-3	24.0 - 28.6
	Armoured	RHSJA 36P 35-95-1	RHSJA 36P 35-95-3	
95 - 240	No armour	RHSJU 36P 95-240-1	RHSJU 36P 95-240-3	28.6 - 35.4
	Armoured	RHSJA 36P 95-240-1	RHSJA 36P 95-240-3	
185 - 400	No armour	RHSJU 36P 185-400-1	RHSJU 36P 185 -400-3	33.1 - 40.7
	Armoured	RHSJA 36P 185-400-1	RHSJA 36P 185 -400-3	
300 - 630	No armour	RHSJU 36P 300-630-1	-	37.6 - 46.8
	Armoured	RHSJA 36P 300-630-1	-	
800 - 1000	No armour	RHSJU 36P 800-1000-1	-	46.8 - 54.6
	Armoured	RHSJA 36P 800-1000-1	-	

For full product code selection, see Page 51

For Single & Three Core cables



RHSJ-(7-36)PX



Medium Voltage Straight Joints for Transition between Paper Insulated Cables and Polymeric Cables up to 36kV

The RHJ-PX range of kits are designed for jointing three core armoured cables to three separate single core cables with polymeric (XLPE or EPR) insulation.

They can be used with both compression and mechanical type connectors.

Typical Kit Contents

(actual components will depend on specific joint type)

- Heat Shrinkable insulation tubing¹
- Heat Shrinkable stress control tubing
- Stress control void filling mastic
- Oil Barrier Heat Shrinkable tubing
- Conductive Heat Shrinkable tubing
- Conductive Heat Shrink 3 core breakout
- Earth / armour screen continuity materials
- Heavy Wall Heat Shrinkable corrosion protection tubing
- Mastic sealing tapes
- Phase conductor connector²

¹ – Number and type of tubes depends on insulation level

² – Optional, type specified at order

RHSJU – Suitable for unarmoured cable types

RHSJA – Suitable for armoured cable types

Fully tested to the following specifications

- HD 629.1
- IEC 60502-4

7.2 kV

Straight Transition Cable Joint for cables rated at Um= 7.2kV

Conductor Cross Section (mm ²)	Cable Construction	Kit Number Single Core Joint	Kit Number Three Core Joint	*Diameter over insulation (mm)
35 - 95	No armour	RHSJU 7PX 35-95-1	RHSJU 7PX 35-95-3	13.5 - 17.6
	Armoured	RHSJA 7PX 35-95-1	RHSJA 7PX 35-95-3	
95 - 240	No armour	RHSJU 7PX 95-240-1	RHSJU 7PX 95-240-3	17.6 - 24.4
	Armoured	RHSJA 7PX 95-240-1	RHSJA 7PX 95-240-3	
185 - 400	No armour	RHSJU 7PX 185-400-1	RHSJU 7PX 185-400-3	22.1 - 29.7
	Armoured	RHSJA 7PX 185-400-1	RHSJA 7PX 185-400-3	
400 - 630	No armour	RHSJU 7PX 400-630-1	-	29.7 - 35.8
	Armoured	RHSJA 7PX 400-630-1	-	

12 kV

Straight Transition Cable Joint for cables rated at Um= 12kV

35 - 95	No armour	RHSJU 12PX 35-95-1	RHSJU 12PX 35-95-3	14.6 - 20.5
	Armoured	RHSJA 12PX 35-95-1	RHSJA 12PX 35-95-3	
95 - 240	No armour	RHSJU 12PX 95-240-1	RHSJU 12PX 95-240-3	20.5 - 27.3
	Armoured	RHSJA 12PX 95-240-1	RHSJA 12PX 95-240-3	
185 - 400	No armour	RHSJU 12PX 185-400-1	RHSJU 12PX 185-400-3	25.1 - 32.3
	Armoured	RHSJA 12PX 185-400-1	RHSJA 12PX 185-400-3	
400 - 630	No armour	RHSJU 12PX 400-630-1	-	32.3 - 38.6
	Armoured	RHSJA 12PX 400-630-1	-	
800 - 1000	No armour	RHSJU 12PX 800-1000-1	-	37.9 - 41.9
	Armoured	RHSJA 12PX 800-1000-1	-	

RHSJ-(7-36)PX

17.5 kV

Straight Transition Cable Joint for cables rated at Um= 17.5kV

Conductor Cross Section (mm ²)	Cable Construction	Kit Number Single Core Joint	Kit Number Three Core Joint	*Diameter over insulation (mm)
35 - 95	No armour	RHSJU 17PX 35-95-1	RHSJU 17PX 35-95-3	17.7 - 21.4
	Armoured	RHSJA 17PX 35-95-1	RHSJA 17PX 35-95-3	
95 - 240	No armour	RHSJU 17PX 95-240-1	RHSJU 17PX 95-240-3	21.4 - 28.2
	Armoured	RHSJA 17PX 95-240-1	RHSJA 17PX 95-240-3	
185 - 400	No armour	RHSJU 17PX 185-400-1	RHSJU 17PX 185-400-3	22.8 - 30.4
	Armoured	RHSJA 17PX 185-400-1	RHSJA 17PX 185-400-3	
400 - 630	No armour	RHSJU 17PX 400-630-1	-	33.5 - 39.6
	Armoured	RHSJA 17PX 400-630-1	-	
800 - 1000	No armour	RHSJU 17PX 800-1000-1	-	43.4 - 47.4
	Armoured	RHSJA 17PX 800-1000-1	-	

24 kV

Straight Transition Cable Joint for cables rated at Um= 24kV

35 - 95	No armour	RHSJU 24PX 35-95-1	RHSJU 24PX 35-95-3	18.0 - 25.1
	Armoured	RHSJA 24PX 35-95-1	RHSJA 24PX 35-95-3	
95 - 240	No armour	RHSJU 24PX 95-240-1	RHSJU 24PX 95-240-3	25.1 - 34.2
	Armoured	RHSJA 24PX 95-240-1	RHSJA 24PX 95-240-3	
185 - 400	No armour	RHSJU 24PX 185-400-1	RHSJU 24PX 185-400-3	31.9 - 39.8
	Armoured	RHSJA 24PX 185-400-1	RHSJA 24PX 185-400-3	
300 - 630	No armour	RHSJU 24PX 300-630-1	-	36.9 - 45.8
	Armoured	RHSJA 24PX 300-630-1	-	
800 - 1000	No armour	RHSJU 24PX 800-1000-1	-	50.0 - 54.1
	Armoured	RHSJA 24PX 800-1000-1	-	

36 kV

Straight Transition Cable Joint for cables rated at Um= 36kV

35 - 95	No armour	RHSJU 36PX 35-95-1	RHSJU 36PX 35-95-3	24.0 - 28.6
	Armoured	RHSJA 36PX 35-95-1	RHSJA 36PX 35-95-3	
95 - 240	No armour	RHSJU 36PX 95-240-1	RHSJU 36PX 95-240-3	28.6 - 35.4
	Armoured	RHSJA 36PX 95-240-1	RHSJA 36PX 95-240-3	
185 - 400	No armour	RHSJU 36PX 185-400-1	RHSJU 36PX 185-400-3	33.1 - 40.7
	Armoured	RHSJA 36PX 185-400-1	RHSJA 36PX 185-400-3	
300 - 630	No armour	RHSJU 36PX 300-630-1	-	37.6 - 46.8
	Armoured	RHSJA 36PX 300-630-1	-	
800 - 1000	No armour	RHSJU 36PX 800-1000-1	-	46.8 - 54.6
	Armoured	RHSJA 36PX 800-1000-1	-	

For full product code selection, see Page 51

For jointing three core to 3 x single core cables

RHTJ-(7-36)

Medium Voltage Joints for Transition between 3 core Paper or Polymeric Insulated Cables to three single core Polymeric Cables up to 36kV

The most common configuration is a 3 core PILC type cable connecting to XLPE or EPR single core cables – RHTJ-PX

For 3 core cables with individual lead sheath, the product code is RHTJ-HX



Typical Kit Contents

(actual components will depend on specific joint type)

- Heat Shrinkable insulation tubing¹
- Heat Shrinkable stress control tubing
- Stress control void filling mastic
- Oil Barrier Heat Shrinkable tubing
- Conductive Heat Shrinkable tubing
- Conductive Heat Shrinkable 3 core breakout
- Earth / armour screen continuity materials
- Heavy Wall Heat Shrinkable corrosion protection tubing
- Heat Shrinkable 3 core breakout
- Mastic sealing tapes
- Mechanical Phase conductor connector²

¹ – Number and type of tubes depends on insulation level

² – Optional, type specified at order

RHTJU – Suitable for unarmoured cable types

RHTJA – Suitable for armoured cable types

Fully tested to the following specifications

- HD629.1
- IEC 60502-4



Typical Arrangement for a 3 core armoured and tape screen polymeric cable jointed to three single core un-armoured, copper wire screened cables.

Example Product Code: **RHTJU-12X 95-240**



Typical Arrangement for a 3 core armoured PILC cable jointed to three single core un-armoured, copper wire screened cables.

Example Product Code: **RHTJU-12PX 95-240**



RHTJ-(7-36)

7.2 kV

Straight Trifurcating Cable Joint for cables rated at Um= 7.2kV

Conductor Cross Section (mm ²)	Single Core Polymeric Cable Construction	Kit Number Transition from 3c Polymeric cable	Kit Number Transition from 3c PILC cable	Kit Number Transition from 3c PILC / HSL cable
35 - 95	No armour	RHTJU 7X 35-95	RHTJU 7PX 35-95	-
	Armoured	RHTJA 7X 35-95	RHTJA 7PX 35-95	-
95 - 240	No armour	RHTJU 7X 95-240	RHTJU 7PX 95-240	-
	Armoured	RHTJA 7X 95-240	RHTJA 7PX 95-240	-
185 - 400	No armour	RHTJU 7X 185-400	RHTJU 7PX 185-400	-
	Armoured	RHTJA 7X 185-400	RHTJA 7PX 185-400	-

12 kV

Straight Trifurcating Cable Joint for cables rated at Um= 12 kV

35 - 95	No armour	RHTJU 12X 35-95	RHTJU 12PX 35-95	-
	Armoured	RHTJA 12X 35-95	RHTJA 12PX 35-95	-
95 - 240	No armour	RHTJU 12X 95-240	RHTJU 12PX 95-240	-
	Armoured	RHTJA 12X 95-240	RHTJA 12PX 95-240	-
185 - 400	No armour	RHTJU 12X 185-400	RHTJU 12PX 185-400	-
	Armoured	RHTJA 12X 185-400	RHTJA 12PX 185-400	-

17.5 kV

Straight Trifurcating Cable Joint for cables rated at Um= 17.5kV

35 - 95	No armour	RHTJU 17X 35-95	RHTJU 17PX 35-95	-
	Armoured	RHTJA 17X 35-95	RHTJA 17PX 35-95	-
95 - 240	No armour	RHTJU 17X 95-240	RHTJU 17PX 95-240	-
	Armoured	RHTJA 17X 95-240	RHTJA 17PX 95-240	-
185 - 400	No armour	RHTJU 17X 185-400	RHTJU 17PX 185-400	-
	Armoured	RHTJA 17X 185-400	RHTJA 17PX 185-400	-

24 kV

Straight Trifurcating Cable Joint for cables rated at Um= 24kV

35 - 95	No armour	RHTJU 24X 35-95	RHTJU 24PX 35-95	RHTJU 24HX 35-95
	Armoured	RHTJA 24X 35-95	RHTJA 24PX 35-95	RHTJA 24HX 35-95
95 - 240	No armour	RHTJU 24X 95-240	RHTJU 24PX 95-240	RHTJU 24HX 95-240
	Armoured	RHTJA 24X 95-240	RHTJA 24PX 95-240	RHTJA 24HX 95-240
185 - 400	No armour	RHTJU 24X 185-400	RHTJU 24PX 185-400	RHTJU 24HX 185-400
	Armoured	RHTJA 24X 185-400	RHTJA 24PX 185-400	RHTJA 24HX 185-400

36 kV

Straight Trifurcating Cable Joint for cables rated at Um= 36kV

35 - 95	No armour	RHTJU 36X 35-95	RHTJU 36PX 35-95	RHTJU 36HX 35-95
	Armoured	RHTJA 36X 35-95	RHTJA 36PX 35-95	RHTJA 36HX 35-95
95 - 240	No armour	RHTJU 36X 95-240	RHTJU 36PX 95-240	RHTJU 36HX 95-240
	Armoured	RHTJA 36X 95-240	RHTJA 36PX 95-240	RHTJA 36HX 95-240
185 - 400	No armour	RHTJU 36X 185-400	RHTJU 36PX 185-400	RHTJU 36HX 185-400
	Armoured	RHTJA 36X 185-400	RHTJA 36PX 185-400	RHTJA 36HX 185-400

For full product code selection, see Page 51

RCSJ Cold Shrinkable medium voltage joints provide a method to connect power cables with system voltages up to 36kV using a silicon moulded body which houses a central Faraday cage and stress cones at either end.



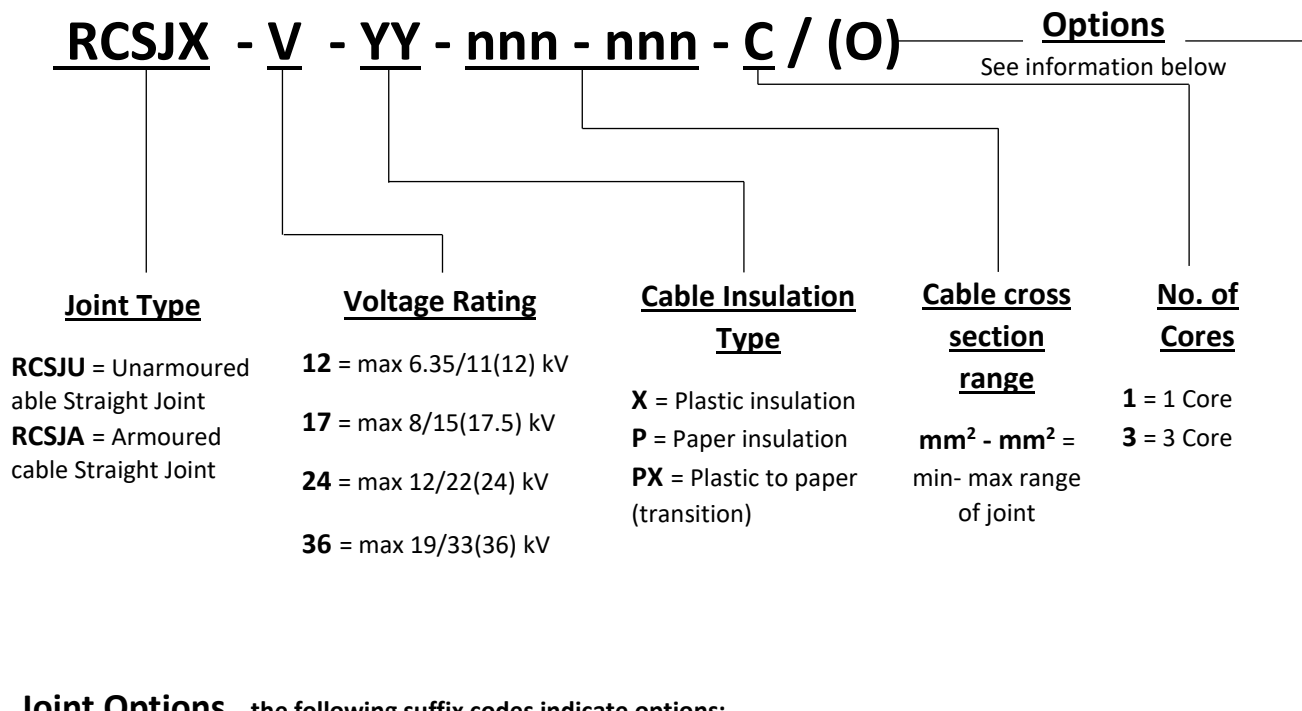
The joint body is installed without the need for any heat or special tools.

Depending on the cables to be jointed, the earth continuity and outer protection materials can be customised to suit the cable joint configurations.

RCSJ – Cold Shrink Joint Designer for cables 12kV to 36kV

The coding system below allows installer to specify correct joint based on application and cable type.

The joint code is made up of 5 elements plus options suffix as follows:



Joint Options the following suffix codes indicate options:

- **/MC** = Mechanical connectors supplied in kit (default)
- **/H** = Joint is supplied with a heavy wall Heat Shrink outer protection tube
- **/C** = Joint is supplied with a EPDM Cold Shrink outer protection tube (only for single core cables)

Examples:

RCSJU – 12X 95-240-1/H/MC – Cold Shrinkable Straight Joint for single core 12kV unarmoured XLPE or EPR insulated cables between 95 and 240mm², supplied with mechanical connector and Cold Shrink outer tube.

RCSJA – 17X 240-300-3/C/MC - Cold Shrinkable Straight Joint for three core 17.5kV armoured XLPE or EPR insulated cables between 240 and 300mm², supplied with mechanical connectors and Cold Shrink outer tube.

REPL range of RCSJ Cold Shrinkable Joints are suitable for installations on medium voltage cables up to 36kV. The Joint consists of a moulded silicon rubber body with integrated central Faraday Cage, geometric stress control, and a conductive outer layer which reinstates the key layers of the cable being jointed. The joint bodies are pre-expanded onto a spiral former providing a suitable diameter clearance to allow easy location over cables and connectors. Once correctly located the body is shrunk down by simply pulling out the spiral tape former.



To complete the joint, the cable metallic screens are connected using an appropriate method. There are two options available for the outer protection, Cold Shrinkable or Heat Shrinkable tubing. Because the RCSJ requires no special tools or heat source for installation, it is ideal for areas where heat tools are not allowed or accessible. A range of bodies to cover cables up to 36kV in single core and three core designs.

Features:

- Tested to CENELEC HD 629.1.
- Quick and easy installation using no heat source or special tools
- One piece design with integrated central Faraday cage and screen stress control cones
- Short parking distance required means compact joint bay area
- Silicon Rubber material for excellent electrical insulation properties
- Suitable for a wide range of mechanical cable connectors
- Kits for armoured and unarmoured type cables can be supplied
- Choice of outer protection materials

The pre-moulded silicon rubber joint bodies integrate the key components to reinstate the insulation system for a medium voltage cable.

The inner Faraday cage is at same potential as the phase connector and provides a smoothing layer onto the insulation – this means any sharp edge on the connector does not affect the performance.

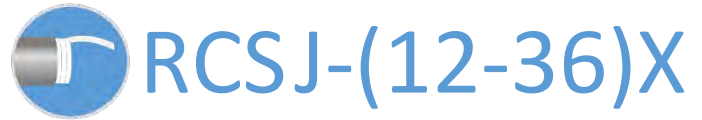
The geometric stress cones at either end provide field control at the end of the insulation screens.



Technical Details for RCSJ Cold Shrinkable Jointing System

Voltage Class:	12kV	17.5kV	24kV	36kV
Cross Section Range (mm ²)	50 - 1000	50 - 1000	35 - 1000	50 - 1000
Cable Insulation Diameter (mm)	15 - 46	17 - 48	18 - 50	24 - 55
Voltage Rating U_0/U (kV)	6.35/11 (12)	8.7/15 (17.5)	12.7/22 (24)	19/33 (36)
Basic Impulse Level (BIL) kV	95	95	125	194
Partial Discharge at 1.73U ⁰ (pC)	<10	<10	<10	<10
AC Voltage Withstand , 5 min (kV)	>28.5	>39	>57	>85.5
DC Voltage Withstand , 15min (kV)	>38	>52	>76	>114

For Single & Three Core Polymeric Insulated cables (XLPE / EPR)



Typical Kit Contents

(actual components will depend on specific joint type)

1. Cold Shrinkable moulded joint body
2. Earth / armour screen continuity materials (dependant on cable design)
3. Mastic sealing tapes
4. Outer Protection materials , either :
 - Heavy Wall Heat Shrinkable tube (*Hybrid joint where heat is allowed*)
 - EPDM rubber Cold Shrinkable tubing (*"ALL COLD" joint where no heat is allowed*)
 - 3X single core unarmoured types

Medium Voltage Straight Joints for Polymeric Insulated Cables up to 36kV

The RCSJ-X range of kits are designed for jointing either single or three core cable designs with polymeric (XLPE or EPR) insulation and to be used with mechanical type connectors.

RCSJU – Suitable for unarmoured cable types

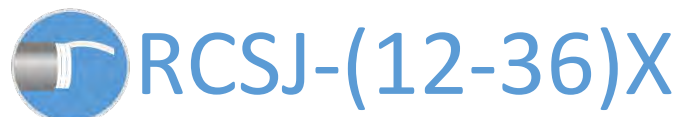
RCSJA – Suitable for armoured cable types

RCSTJU – Suitable for transition of 3 core cable to (3X) single core unarmoured types

Fully tested to the following specifications:

- CENELEC HD629.1





12 kV

17.5 kV

24 kV

36 kV

Conductor Cross Section (See Note 1)	Insulation Diameter Range	Maximum overall Diameter of Cable Sheath (See Note 2)	Cable Construction	Kit Number Single Core Joint	Kit Number Three Core Joint
(mm ²)	Ø mm	Ø mm			
Cold Shrinkable Straight Cable Joint for Polymeric Insulated cables rated at U _m = 12kV					
50 - 95	17 - 24	32	Unarmoured	RCSJU 12X 50-95-1	RCSJU 12X 50-95-3
			Armoured	RCSJA 12X 50-95-1	RCSJA 12X 50-95-3
95 - 240	19 - 27	40	Unarmoured	RCSJU 12X 95-240-1	RCSJU 12X 95-240-3
			Armoured	RCSJA 12X 95-240-1	RCSJA 12X 95-240-3
185 - 300	25 - 30	42.3	Unarmoured	RCSJU 12X 185-300-1	RCSJU 12X 185-300-3
			Armoured	RCSJU 12X 185-300-1	RCSJA 12X 185-300-3
400 - 630*	32 - 39	53.3	Unarmoured	RCSJU 12X 400-630-1	RCSJU 12X 400-630-3
			Armoured	RCSJA 12X 400-630-1	RCSJA 12X 400-630-3
800 - 1000	38 - 42	55.5	Unarmoured	RCSJU 12X 800-1000-1	-
			Armoured	RCSJA 12X 800-1000-1	-
Cold Shrinkable Straight Cable Joint for Polymeric Insulated cables rated at U _m = 17.5kV					
35 - 95	17 - 21	37	Unarmoured	RCSJU 17X 35-95-1	RCSJU 17X 35-95-3
			Armoured	RCSJA 17X 35-95-1	RCSJA 17X 35-95-3
70 - 240	20 - 28	45	Unarmoured	RCSJU 17X 70-240-1	RCSJU 17X 70-240-3
			Armoured	RCSJA 17X 70-240-1	RCSJA 17X 70-240-3
150 - 300	24 - 30	47	Unarmoured	RCSJU 17X 150-300-1	RCSJU 17X 150-300-3
			Armoured	RCSJA 17X 150-300-1	RCSJA 17X 150-300-3
300 – 630*	30 - 40	59	Unarmoured	RCSJU 17X 300-630-1	RCSJU 17X 300-400-3
			Armoured	RCSJA 17X 300-630-1	RCSJA 17X 300-400-3
800 - 1000	43 - 48	71	Unarmoured	RCSJU 17X 800-1000-1	-
			Armoured	RCSJA 17X 800-1000-1	-
Cold Shrinkable Straight Cable Joint for Polymeric Insulated cables rated at U _m = 24kV					
35 - 70	17 - 23	38	Unarmoured	RCSJU 24X 35-70-1	RCSJU 24X 35-70-3
			Armoured	RCSJA 24X 35-70-1	RCSJA 24X 35-70-3
70 - 240	23 - 34	47	Unarmoured	RCSJU 24X 70-240-1	RCSJU 24X 70-240-3
			Armoured	RCSJA 24X 70-240-1	RCSJA 24X 70-240-3
120 - 300	27 - 37	51	Unarmoured	RCSJU 24X 120-300-1	RCSJU 24X 120-300-3
			Armoured	RCSJA 24X 120-300-1	RCSJA 24X 120-300-3
300 – 630*	37 - 46	61	Unarmoured	RCSJU 24X 300-630-1	RCSJU 24X 300-400-3
			Armoured	RCSJA 24X 300-630-1	RCSJA 24X 300-400-3
800 - 1000	50 - 54	73	Unarmoured	RCSJU 24X 800-1000-1	-
			Armoured	RCSJA 24X 800-1000-1	-
Cold Shrinkable Straight Cable Joint for Polymeric Insulated cables rated at U _m = 36kV					
50 - 150	25 - 31	50	Unarmoured	RCSJU 36X 50-150-1	RCSJU 36X 50-150-3
			Armoured	RCSJA 36X 50-150-1	RCSJA 36X 50-150-3
70 - 240	27 - 35	54	Unarmoured	RCSJU 36X 70-240-1	RCSJU 36X 70-240-3
			Armoured	RCSJA 36X 70-240-1	RCSJA 36X 70-240-3
185 - 400	33 - 41	60	Unarmoured	RCSJU 36X 185-400-1	RCSJU 36X 185-400-3
			Armoured	RCSJA 36X 185-400-1	RCSJA 36X 185-400-3
300 - 630	38 - 47	67	Unarmoured	RCSJU 36X 300-630-1	-
			Armoured	RCSJA 36X 300-630-1	-
800 - 1000	51 - 55	79	Unarmoured	RCSJU 36X 800-1000-1	-
			Armoured	RCSJA 36X 800-1000-1	-

For full product code selection, see Page 61

*3 core cables up to 400m² only

Note 1 – the conductor cross sections shown are for general guidance only – the more important parameter is the insulation diameter range to ensure the moulded joint body fits correctly.

Note 2 – for single core cables, the maximum diameter of the cable is important as the moulded joint body has to slide over the joint and have adequate room for the spiral tape to be pulled out – therefore for cables with armour where diameter is on the top end of the range, it might be better to select next size up.

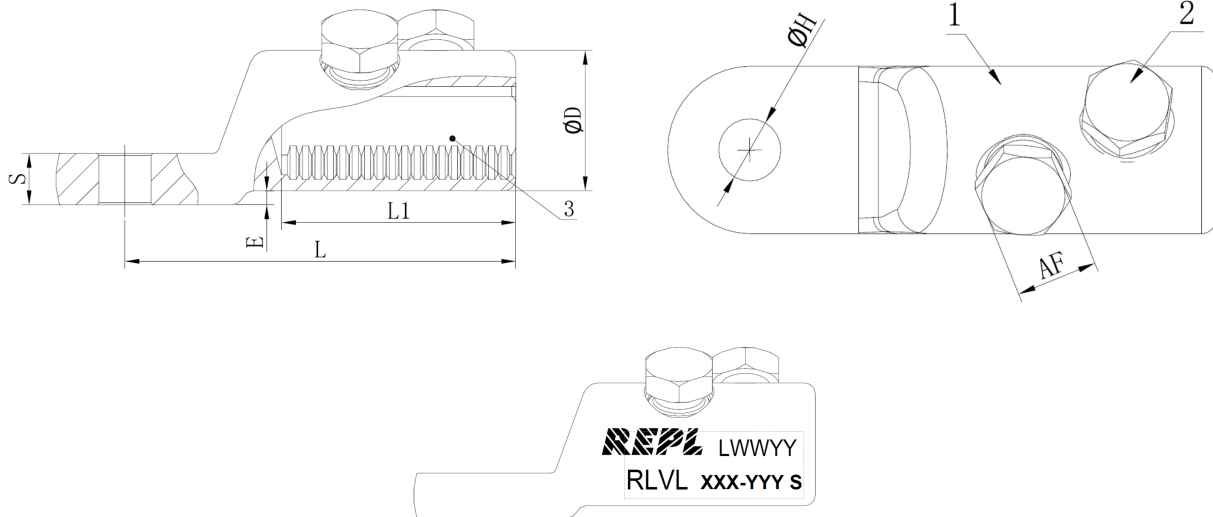


RLVL-S - LV Mechanical Cable Lug

The RLVL-S Series are Lugs suitable for LV applications, they are made of Tinned plated Al alloy, and shear off bolts.

The bolts have hexagonal head and they are provided with antioxidant grease in the bores.

The Lugs are suitable for Cu and Al stranded round and sectorial conductors.



Product Code	Body Type	Ø	L	L1	A/F	No. of Bolts	S	H	E
		mm	mm	mm	mm	#	mm	mm	mm
RLVL 6-25S	B	16	41	19	8	1	6	13	2
RLVL 6-50S	A	18	50	24	10	1	6	13	2
RLVL 16-95S	A	25	52	25	13	1	8	13	2
RLVL 50-240S	A	35	97	56	19	1	13	13	3

APPLICATION RANGE				
Product Code	Round Stranded	Round Solid	Sectoral Stranded	Sectoral Solid
				
	mm ²	mm ²	mm ²	mm ²
RLVL 6-25S	6 – 25	6 – 25	-	-
RLVL 6-50S	6 - 50	6 – 50	-	-
RLVL 16-95S	16 – 95	16 – 95	16 – 95	16 – 95
RLVL 50-240S	50 – 240	50 – 240	50 – 240	50 – 240



RLVC - LV Mechanical Cable Connector

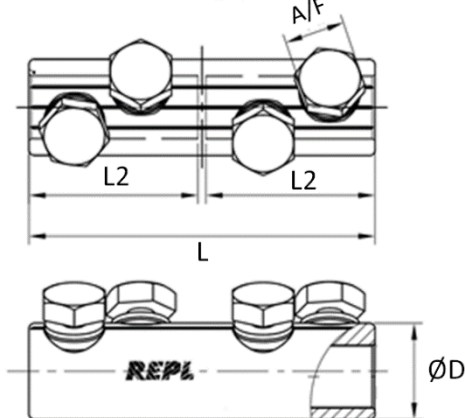
The REPL range of RLVC mechanical cable connectors are designed to be used in cable joints up to 1000v.

The tin plated, aluminium alloy body has a central water block between each cable connection on sizes above 6mm².

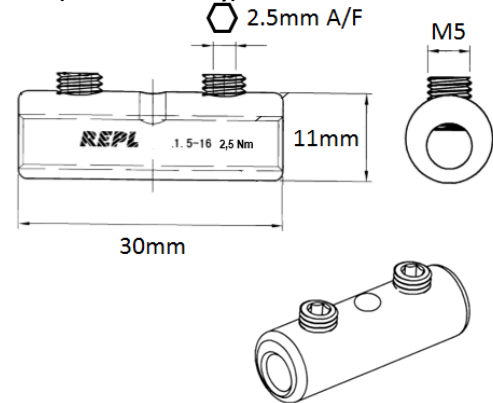
The connectors use a hexagon head clamping screw with shear bolt design (except for RLVC 1.5-16 which has standard screw with Allen key drive).

The connectors come with contact grease in the bores and are suitable for the jointing of copper and aluminium conductors.

Body Type A – with shear bolts
(For 6 to 300mm²)



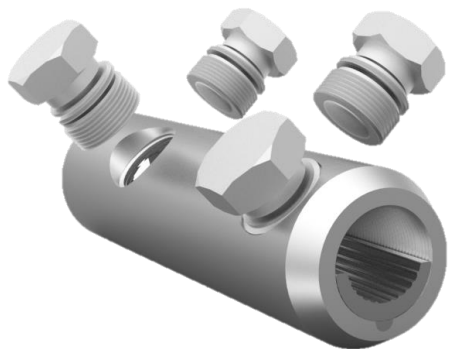
Body Type B – with standard M5 screw
(RLVC 1.5-16 only)



Product Code	Body Type	Ø	L	L2	A/F	No. of Bolts #
		mm	mm	mm	mm	
RLVC 1.5-16	B	11	30	-	2.5	2
RLVC 6-35	A	16	45	20	9	2
RLVC 16-50	A	18	52	24	10	2
RLVC 50-95	A	22	62	29	13	2
RLVC 120-185	A	30	80	38	17	2
RLVC 240-300	A	36	140	68	22	4

APPLICATION RANGE

Product Code	Round Stranded	Round Solid	Sectoral Stranded	Sectoral Solid
				
	mm ²	mm ²	mm ²	mm ²
RLVC 1.5-16	1.5 – 16	1.5 – 16	-	-
RLVC 6-35	6 – 35	6 – 35	-	-
RLVC 16-50	16 – 50	16 – 50	25 – 50	25 – 35
RLVC 50-95	50 – 95	50 – 120	50 – 70	50 – 70
RLVC 120-185	120 – 185	120 – 240	95 – 150	95 – 120
RLVC 240-300	240 – 300	240 – 400	150 – 240	150 – 240



RMVC - MV Mechanical Cable Connector

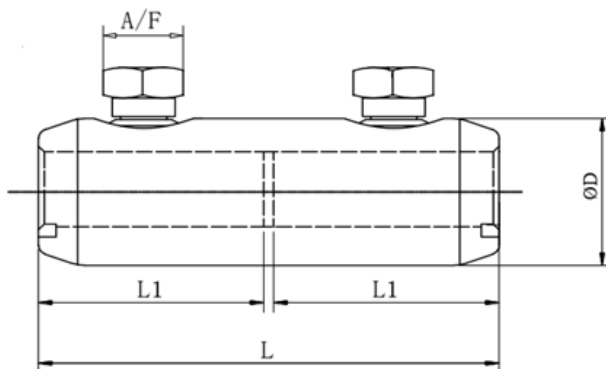
The REPL range of RMVC mechanical cable connectors are designed to be used on cable joints up to 36kv.

The tin-plated aluminium alloy body has a water block between each cable connection.

The connection is made using range taking shear-off mechanical bolts with hexagon heads.

The connectors are designed to accommodate a wide range of conductor types and sizes.

- Tested to IEC 61238-1
- Range taking shear off bolt connection
- Can be installed with standard hexagon socket tool
- Water blocked design
- For Copper or Aluminium conductors
- Can be used on solid and stranded conductors of round or sectoral profile
- Suitable for medium voltage connections up to 36kV



Product Code	Ø D	L	L1	A/F	No. of Bolts
	mm	mm	mm	mm	#
RMVC 25-95	24	70	33	13	2
RMVC 35-150	29	80	38	17	2
RMVC 70-240	35	125	61	19	4
RMVC 120-300	38	140	68	22	4
RMVC 185-400	42	170	83	22	6
RMVC 300-630	52	200	97	24	6
RMVC 800-1000	65	220	105	22	8

APPLICATION RANGE

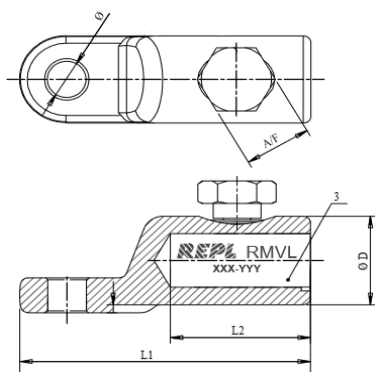
Product Code	Round Stranded	Round Solid	Sectoral Stranded	Sectoral Solid
				
	mm ²	mm ²	mm ²	mm ²
RMVC 25-95	25 – 95	35 – 120	25 - 70	25 – 95
RMVC 35-150	35 – 150	50 – 185	35 – 120	35 – 150
RMVC 70-240	70 - 240	95 - 300	70 – 185	70 – 150
RMVC 120-300	120 – 300	150 – 400	120 – 240	120 – 185
RMVC 185-400	185 – 400	240 – 500	185 – 300	185 – 240
RMVC 300-630	300 – 630	300 – 800	300 – 500	-
RMVC 800-1000	800-1000	800	-	-



RMVL - MV Mechanical Cable Lug

The REPL range of RMVL mechanical cable lugs are designed to be used on cables up to 36kv. The one piece tin plated, aluminium alloy body has a water blocked cable connection made using range taking shear-off mechanical bolts with hexagon heads. The lugs are designed to accommodate a wide range of conductor types and sizes, and are available with either palm holes to suit M12, M16 or M20 threaded connections depending on lug sizes.

Centre palm (axial) versions are also available.



- Range taking shear off bolt connection
- Can be installed with standard hexagon socket tool
- For Copper or Aluminium conductors
- Can be used on solid and stranded conductors of round or sectoral profile
- Available with either 13mm, 16mm or 20mm diameter palm hole
- Suitable for medium voltage connections up to 36kV
- Tested to IEC 61238-1

Product Code	Ø Palm	Ø D	L1	L2	A/F	No. of Bolts
	mm	mm	mm	mm	mm	#
RMVL 25-95/12	13	24	76	32	13	1
RMVL 25-95/16	17					
RMVL 35-150/12	13	28	86	38	17	1
RMVL 35-150/16	17					
RMVL 70-240/12	13	33	114	61	19	2
RMVL 70-240/16	17					
RMVL 120-300/12	13	38	125	67	22	2
RMVL 120-300/16	17					
RMV185-400/12	13	42	141	78	22	3
RMVL 185-400/16	17					
RMVL 300-630/12	13	52	165	90	24	3
RMVL 300-630/16	17					
RMVL 800-1000/21	21	65	198	105	2	4

APPLICATION RANGE

Product Code	Round Stranded	Round Solid	Sectoral Stranded	Sectoral Solid
				
	mm ²	mm ²	mm ²	mm ²
RMVL 25-95/12	25 – 95	35 – 120	25 – 70	25 – 95
RMVL 25-95/16				
RMVL 35-150/12	35 – 150	120 – 185	95 – 120	95 – 150
RMVL 35-150/16				
RMVL 70-240/12	70 – 240	240 – 300	150 – 185	150 – 240
RMVL 70-240/16				
RMVL 120-300/12	120 – 300	300 – 400	185 – 240	240 – 300
RMVL 120-300/16				
RMV185-400/12	185 – 400	400 – 500	240 – 300	300 – 400
RMVL 185-400/16				
RMVL 300-630/12	300 – 630	500 – 800	500	500 – 630
RMVL 300-630/16				
RMVL 800-1000/21	800 – 1000	800	-	-



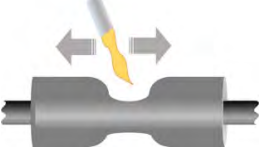
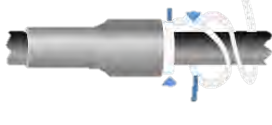
REPL manufacture a wide range of tube components for Cable applications.

Heat Shrinkable Tubes are a popular choice for protection, harnessing, identification and general sealing applications. REPL offer a range of tube thickness in standard insulating grades. In addition, we offer Cold Shrinkable Tubes for insulation and protection as alternative for areas where no heat can be used.

Heat Shrinkable Wraparound Sleeves can be used for cable sheath repair, or general joint protection when it is not possible to use a tube.

Heat Shrinkable Bus-Bar insulation tubes and tapes provide insulation enhancement for live metal when there are reduced clearances where flashover is possible.

Our range of mastic tapes can be used for various sealing and insulating applications within cable joints and terminations.

	Part Code	Description	Page
	RIMT	Medium Wall Heat Shrinkable Tubing – Adhesive Lined/ Unlined	72
	RIHT	Heavy Wall Heat Shrinkable Tubing – Adhesive Lined/ Unlined	74
	SCST	Silicon Rubber Cold Shrinkable Tubing	76
	ECST	EPDM Rubber Cold Shrinkable Tubing	77
	RIBT	Bus-Bar Insulation Heat Shrinkable Tubing	78
	RTBM	Bus-Bar Insulation Heat Shrinkable Tape	81
	RMBK	Black Sealing/Contouring Mastic	83
	RMRD	Red Sealing/Anti-tracking Mastic	83
	RWRS	Wraparound Heat Shrinkable Repair Sleeve	84
	RTSF	Reinforced Wraparound Heat Shrinkable Repair Sleeve	85



Medium Wall Heat Shrink Tubing

REPL Heat Shrinkable Medium Wall Heat Shrinkable Tubes (RIMT) provide environmental protection to the cable cores of plastic and paper insulated cable terminations, and the primary insulation over the connector area in cable joints rated up to 1.2kV.

The insulating tubes are made from thermally stabilized, cross linked, weather resistant polymeric material.

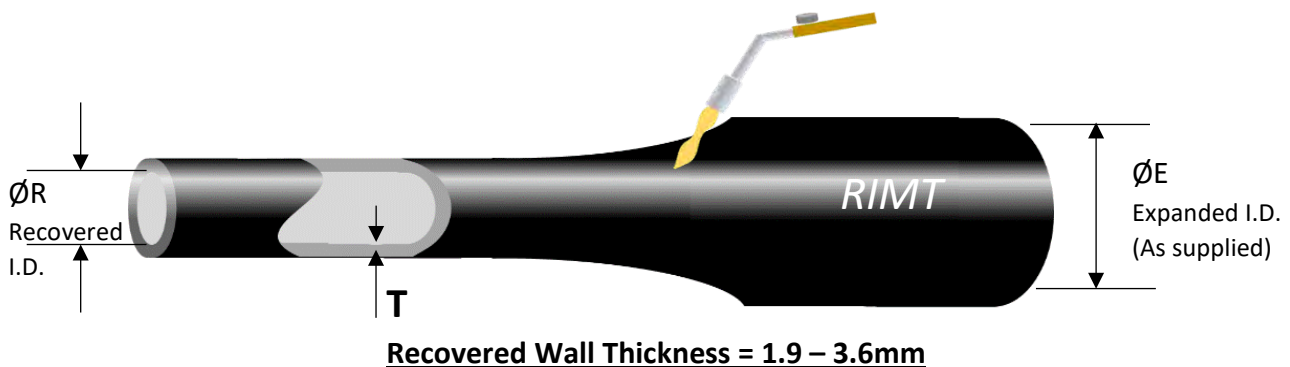
Features:

- Unlimited shelf life
- Excellent resistance to chemicals and solvents
- Excellent electrical properties
- Continuous operating temperature: -50°C to 125°C
- Available in long spool lengths (RIMTU version only)
- Conforms to specifications: IEC 60684-3, ENATS 09-11
- RoHS 2011/65/EU & 2015/863/EU Compliant



Product Types:

- **RIMTU** - Unlined , Shrink Ratio of 3:1
- **RIMTA** - Lined with Hot Melt Adhesive , Shrink Ratio of 3:1



Material Properties	Value	Test Method
Minimum Shrink Temperature	120°C	-
Density	1.19 g/cm ³ +/-10%	IEC 60684-2 / ASTM D-1505
Water Absorption	<0.5%	IEC 60684-2 /ASTM D-570
Tensile Strength	>10 MPa	ISO 37 /ASTM D-412
Ultimate Elongation	>200%	ISO 37/ASTM D-412
Low Temperature Flexibility	No cracking after 4h @-40°C	ASTM D-2671
Tensile Strength after heat ageing (120°C for 500hrs)	>8 MPa	ISO 37/ ASTM D-412
Ultimate Elongation after heat ageing (120°C for 500hrs)	>100%	ISO 37 / ASTM D-412
Hardness	43 +/-3 Shore D	ISO 868 / ASTM D-2240
Volume Resistivity	≥1x10 ¹² Ωcm	IEC 60093 / ASTM D-257
Dielectric Strength	>10kV/mm	IEC 60243 / ASTM D-149
Dielectric Constant	5	IEC 60250/ ASTM D-150



RIMTU

RIMTU 3:1 Shrink Ratio - Unlined

For applications such as environmental protection of cable cores in terminations, or insulation of low voltage connectors.

Product Code	ØE Expanded	ØR Recovered	T Thickness Recovered	Standard Lengths
	mm	mm	mm +/-20%	m
RIMTU 09/03	9	3	1.90	100
RIMTU 12/04	12	4	2.20	50
RIMTU 22/06	22	6	2.50	50
RIMTU 30/08	30	8	2.60	50
RIMTU 40/12	40	12	2.80	25 / 1.0 / 1.2 pc
RIMTU 52/16	52	16	3.00	25 / 1.0 / 1.2 pc
RIMTU 63/19	63	19	3.20	25 / 1.0 / 1.2pc
RIMTU 80/22	80	22	3.20	25 / 1.0 / 1.2 pc
RIMTU 100/30	100	30	3.30	1.0 or 1.2 pc
RIMTU 120/34	120	34	3.30	1.0 or 1.2 pc
RIMTU 140/40	140	40	3.40	1.0 or 1.2 pc
RIMTU 160/50	160	50	3.60	1.0 or 1.2 pc
RIMTU 180/60	180	60	3.60	1.0 or 1.2 pc



RIMTA

RIMTA 3:1 Shrink Ratio Hot Melt Adhesive Lined

For applications requiring a moisture tight seal

Product Code	ØE Expanded	ØR Recovered	T Thickness Recovered	Coating Type	Standard Lengths
	mm	mm	mm +/-20%		m
RIMTA 09/03	9	3	1.90	Smooth	1.0 or 1.2 pc
RIMTA 12/04	12	4	2.20	Smooth	1.0 or 1.2 pc
RIMTA 22/06	22	6	2.50	Smooth	1.0 or 1.2 pc
RIMTA 30/08	30	8	2.60	Smooth	1.0 or 1.2 pc
RIMTA 40/12	40	12	2.80	Smooth	1.0 or 1.2 pc
RIMTA 52/16	52	16	3.00	Smooth	1.0 or 1.2 pc
RIMTA 63/19	63	19	3.20	Smooth	1.0 or 1.2 pc
RIMTA 80/22	80	22	3.20	Spiral	1.0 or 1.2 pc
RIMTA 100/30	100	30	3.30	Spiral	1.0 or 1.2 pc
RIMTA 120/34	120	34	3.30	Spiral	1.0 or 1.2 pc
RIMTA 140/40	140	40	3.40	Spiral	1.0 or 1.2 pc
RIMTA 160/50	160	50	3.60	Spiral	1.0 or 1.2 pc
RIMTA 180/60	180	60	3.60	Spiral	1.0 or 1.2 pc

Colour Options:

BK = Black

REPL Heat Shrinkable Heavy Wall Heat Shrinkable Tubes (RIHT) provide environmental protection for power cable joints up to 42kV and insulating medium for use up to 1.2kV.

The insulating tubes are made from thermally stabilized, cross linked, weather resistant polymeric material.



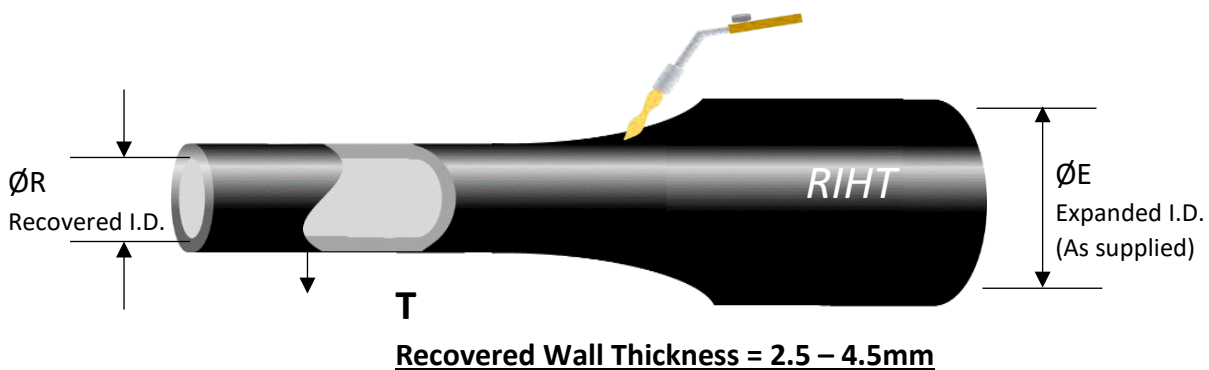
Features:

- Unlimited shelf life
- Excellent resistance to chemicals and solvents
- Excellent electrical properties
- Continuous operating temperature: 50°C to 125°C
- Conforms to specifications: IEC 60684-3, ENATS 09-11, RoHS 2011/65/EU & 2015/863/EU Compliant



Product Types:

- **RIHTU** - Unlined , Shrink Ratio of 3:1
- **RIHTA** - Lined with Hot Melt Adhesive , Shrink Ratio of 3:1



Material Properties	Value	Test Method
Minimum Shrink Temperature	120°C	
Density	1.19 g/cm ³ +/-10%	IEC 60684-2 / ASTM D-1505
Water Absorption	<0.5%	IEC 60684-2 /ASTM D-570
Tensile Strength	>14.5 MPa	IEC 60684-2 /ASTM D-412
Ultimate Elongation	>500%	IEC 60684-2 /ASTM D-412
Low Temperature Flexibility	No cracking after 4h @ -40°C	IEC 60684-2
Tensile Strength after heat ageing (150°C for 168hrs)	>12 MPa	IEC 60684-2 / ASTM D-412
Ultimate Elongation after heat ageing (150°C for 168hrs)	>300%	IEC 60684-2 / ASTM D-412
Hardness	43 +/-3 Shore D	ISO 868 / ASTM D-2240
Volume Resistivity	≥1x10 ¹⁴ Ωcm	IEC 60093 / ASTM D-229
Dielectric Strength	>20kV/mm	IEC 60243 / ASTM D-149
Dielectric Constant	5	IEC 60250/ ASTM D-150
Fungus Resistance	No Growth	ASTM G-21
Chemical Resistance	Good	ISO 175 24hrs immersion at room temperature in NaOH 40% strength, Toluene, Acetone and H ₂ SO ₄ 3% strength



RIHTU 3:1 Shrink Ratio - Unlined

Product Code	ØE	ØR	T	Standard Lengths
	Expanded	Recovered	Thickness Recovered	
	mm	mm	mm +/-20%	m
RIHTU 12/04	12	4	2.50	1.0 or 1.2 pc
RIHTU 16/05	16	5	2.60	1.0 or 1.2 pc
RIHTU 20/06	20	6	2.80	1.0 or 1.2 pc
RIHTU 30/08	30	8	3.20	1.0 or 1.2 pc
RIHTU 40/12	40	12	4.00	1.0 or 1.2 pc
RIHTU 55/16	55	16	4.10	1.0 or 1.2 pc
RIHTU 80/22	80	22	4.20	1.0 or 1.2 pc
RIHTU 100/30	100	30	4.40	1.0 or 1.2 pc
RIHTU 120/34	120	34	4.40	1.0 or 1.2 pc
RIHTU 140/37	140	37	4.50	1.0 or 1.2 pc
RIHTU 160/50	160	50	4.50	1.0 or 1.2 pc
RIHTU 180/60	180	60	4.50	1.0 or 1.2 pc



RIHTA 3:1 Shrink Ratio Hot Melt Adhesive Lined

For applications requiring a moisture tight seal

Product Code	ØE	ØR	T	Coating Type	Standard Lengths
	Expanded	Recovered	Thickness Recovered		
	mm	mm	mm +/-20%		m
RIHTA 12/04	12	4	2.50	Smooth	1.0 or 1.2 pc
RIHTA 16/05	16	5	2.60	Smooth	1.0 or 1.2 pc
RIHTA 20/06	20	6	2.80	Smooth	1.0 or 1.2 pc
RIHTA 30/08	30	8	3.20	Smooth	1.0 or 1.2 pc
RIHTA 40/12	40	12	4.00	Spiral	1.0 or 1.2 pc
RIHTA 55/16	55	16	4.10	Spiral	1.0 or 1.2 pc
RIHTA 80/22	80	22	4.20	Spiral	1.0 or 1.2 pc
RIHTA 100/30	100	30	4.40	Spiral	1.0 or 1.2 pc
RIHTA 120/34	120	34	4.40	Spiral	1.0 or 1.2 pc
RIHTA 140/37	140	37	4.50	Spiral	1.0 or 1.2 pc
RIHTA 160/50	160	50	4.50	Spiral	1.0 or 1.2 pc
RIHTA 180/60	180	60	4.50	Spiral	1.0 or 1.2 pc

Colour Options:

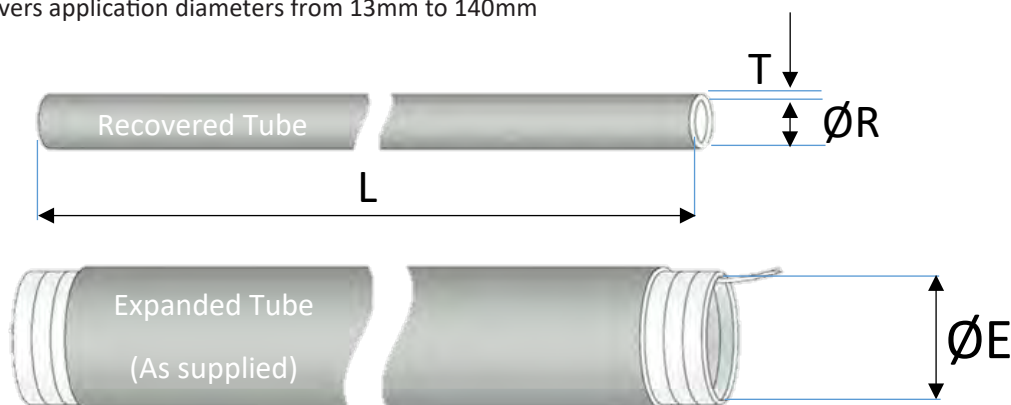
BK = Black

The REPL SCST range of Cold Shrinkable tubing is made from silicon rubber material and can be used for a number of applications such as core or connector insulation in low voltage cable joints, moisture sealing, diameter build up or outer joint protection.

The tubes are pre-expanded onto a plastic spiral core and can be easily shrunk onto cables / pipes etc. by simply pulling out the spiral tape – **no heat or tools are necessary.**



- Suitable for indoor and outdoor applications.
- Good mechanical strength
- Weatherproof
- Excellent electrical insulation properties
- Ozone and UV resistant
- Resistant to acids and alkalis
- Good Thermal stability – operating range of -50°C to 250°C
- Resists fire – will not support flame
- Range covers application diameters from 13mm to 140mm



Product Code	Application Range Ø	ØE Expanded	ØR Recovered	T Thickness Recovered	Standard Lengths*	Colour
	mm	mm	mm	mm +/-20%	mm	m
SCST 25/12	13 - 20	25	12	2.5	220	Grey
SCST 40/15	20 - 30	40	15	3.0	220 / 450	Grey
SCST 50/20	25 - 40	50	20	3.0	220 / 450	Grey
SCST 65/20	25 - 55	65	20	4.5	600 / 700	Black
SCST 80/24	25 - 70	80	24	4.5	600 / 700	Black
SCST 90/27	30 - 80	90	27	4.5	600 / 700	Black

*Other lengths available upon request

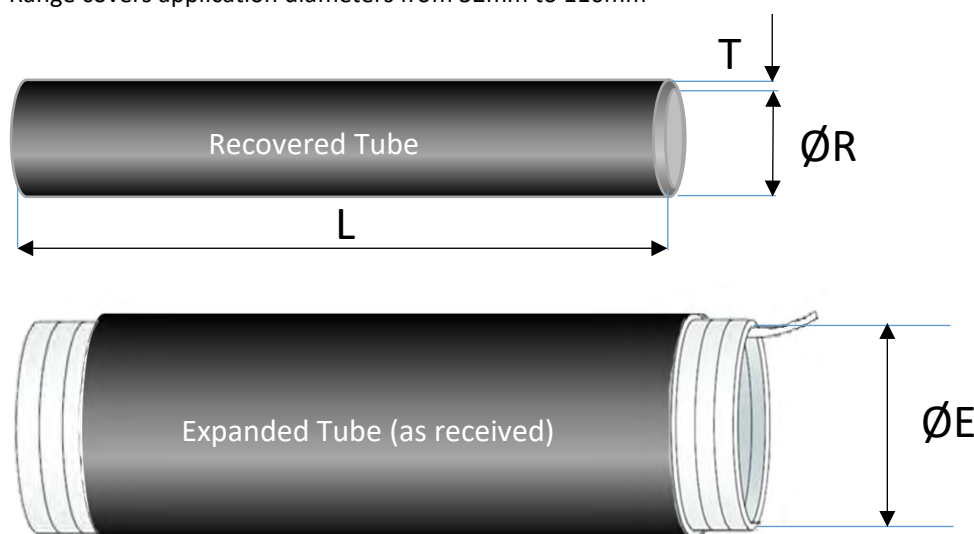
Material Properties	Value	Test Method
Hardness	>40±5 Shore A	ASTM D 2240
Tensile Strength	>8 MPa	ASTM D 412 / BS 903ptA2
Elongation at Break	700%	ASTM D 412 / BS 903ptA2
Dielectric Strength	>20kV/mm	ASTM D 149 / BS 2918pt2
Weather Resistance (5000hr)	Pass	ASTM G 154

The REPL ECST range of Cold Shrinkable tubing is made from EPDM rubber material and can be used for a number of applications such as providing a tough, weatherproof seal over cable joints.

The tubes are pre-expanded onto a plastic spiral core and can be easily shrunk onto cables / pipes etc. by simply pulling out the spiral tape – no heat or tools are necessary.



- Suitable for indoor, outdoor and direct buried applications.
- Good mechanical strength to withstand backfill operations
- Waterproof
- Excellent electrical insulation properties
- Ozone and UV resistant
- Resistant to acids and alkalis
- Good Thermal stability
- Range covers application diameters from 32mm to 110mm



Product Code	Application Range Ø	ØE Expanded	ØR Recovered	T Thickness Recovered	Standard Lengths*
	mm	mm	mm	mm +/-20%	mm
ECST 70/35	32 - 63	70	35	3.5	600
ECST 90/45	43 - 80	90	45	3.5	600
ECST 104/45	43 - 94	104	45	3.5	250 / 600
ECST 120/52	54 - 110	120	52	3.5	250 / 600

*Other lengths available upon request

Material Properties	Value	Test Method
Colour	Black	-
Hardness	>38 Shore A	ASTM D 2240
Tensile Strength	8MPa	ASTM D 412 / BS 903ptA2
Elongation at Break	700%	ASTM D 412 / BS 903ptA2
Tear Strength	32KN/m	ASTM D 624C / BS 903ptA26
Dielectric Strength	19kV/mm	ASTM D 149 / BS 2918pt2
Weather Resistance (5000hr)	Pass	ASTM G 154

The REPL RIBT Heat Shrinkable Bus-Bar Insulation Tubing is used to insulate copper and aluminium bus-bars, preventing flashovers and accidentally induced discharge. It can be used in confined spaces to reduce the clearance necessary between bus-bar phases.

The tubes are made from thermally stabilized, cross linked, weather resistant polymeric material with a nominal shrink ratio of 3:1 and an unlimited shelf life when stored at normal warehouse temperatures.

It is available in two grades of wall thickness and can be used on all bus-bar systems, as long as minimum clearances are maintained as shown in the accompanying tables.

- Unlimited shelf life
- Halogen free
- UV & weather resistant
- Shrink ratio: 3:1
- Continuous operating temperature: 50°C to 125°C
- Conforms to specifications: IEC 60684-3 / ENATS 09-13, RoHS 2011/65/EU & 2015/863/EU Compliant
- Colour: Flame red (RAL 3000)



Product Types:

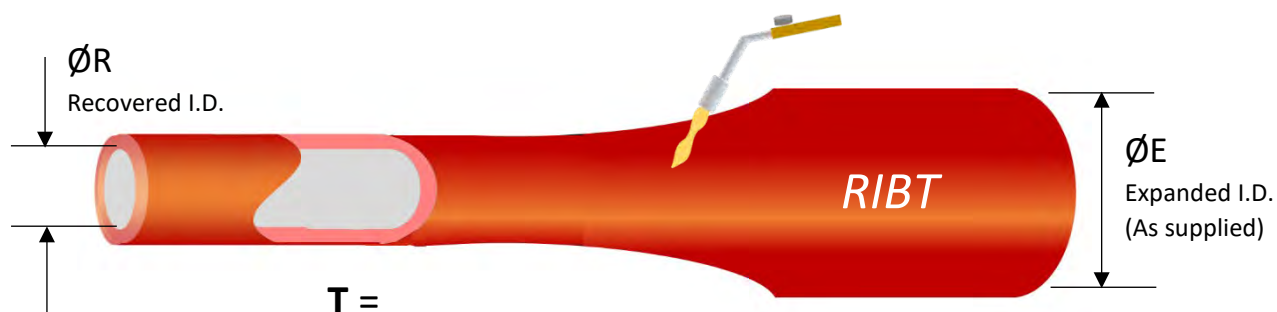
- **RIBT** - Medium Wall thickness, Shrink Ratio of 3:1
- **RIBT-T** - Heavy Wall thickness, Shrink Ratio of 3:1

Material Properties	Value	Test Method
Minimum Shrink Temperature	120°C	-
Density	1.19 g/cm ³ +/-10%	IEC 60684-2 / ASTM D-1505
Water Absorption	<01%	IEC 60684-2 /ASTM D-570
Tensile Strength	>14 MPa	IEC 60684-2 /ASTM D-412
Ultimate Elongation	>300%	IEC 60684-2 /ASTM D-412
Low Temperature Flexibility	No cracking after 4h @40°C	IEC 60684-2
Heat Shock	No cracking or flow	IEC 60684-2
Tensile Strength after heat ageing (150°C for 168hrs)	>10 MPa	IEC 60684-2 / ASTM D-412
Ultimate Elongation after heat ageing (150°C for 168hrs)	>200%	IEC 60684-2 / ASTM D-412
Hardness	45 +/-3 Shore D	ISO 868 / ASTM D-2240
Volume Resistivity	≥1x10 ¹⁴ Ωcm	IEC 60093 / ASTM D-229
Dielectric Strength	>20kV/mm	IEC 60243 / ASTM D-149
Dielectric Constant	<3.5	IEC 60250 / ASTM D-150
Fungus Resistance	No Growth	ASTM G-21
Chemical Resistance	Good	ISO 175 24hrs immersion at room temperature in NaOH 40% strength, Toluene, Acetone and H ₂ SO ₄ 3% strength

IMPORTANT – Please refer to the information on the following pages regarding the recommended minimum clearances to be used for distance between each phases and phase to earth.



RIBT



T =

Recovered Wall Thickness = 2.5-2.8mm for RIBT

Recovered Wall Thickness = 4.0mm for RIBT-T

RIBT 3:1 Shrink Ratio

Medium Wall Bus-Bar insulating Tubing

Product Code	ØE Expanded	ØR Recovered	T Thickness Recovered	Standard Reel Lengths
	mm	mm	mm +/-20%	
RIBT 015/006	15	6	2.5	30
RIBT 020/008	20	8	2.5	30
RIBT 025/010	25	10	2.5	30
RIBT 030/012	30	12	2.5	30
RIBT 040/016	40	16	2.5	30
RIBT 050/020	50	20	2.8	15
RIBT 060/024	60	24	2.8	15
RIBT 070/028	70	28	2.8	15
RIBT 080/032	80	32	2.8	15
RIBT 100/040	100	40	2.8	15
RIBT 120/048	120	48	2.8	15

RIBT-T 3:1 Shrink Ratio

Thick Wall Bus-Bar insulating Tubing

Product Code	ØE Expanded	ØR Recovered	T Thickness Recovered	Standard Reel Lengths
	mm	mm	mm +/-20%	
RIBT-T 030/012	30	12	4.0	30
RIBT-T 040/016	40	16	4.0	30
RIBT-T 050/020	50	20	4.0	15
RIBT-T 060/024	60	24	4.0	15
RIBT-T 070/028	70	28	4.0	15
RIBT-T 080/032	80	32	4.0	15
RIBT-T 100/040	100	40	4.0	15
RIBT-T 120/048	120	48	4.0	15

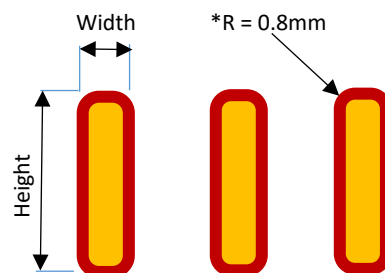
Application Range Guidance

REPL RIBT Heat Shrinkable Bus-Bar Insulating Tubing is suitable for round or rectangular section Bus-Bars.

The table below gives a guide to the application range for each size of tube. For rectangular sections, add the bus-bar height and width together – for round sections use diameter of Bus-Bar – the values in the table indicate the tube to use based on the Bus-Bar dimensions



Product Code	Rectangular Section Bus-Bar (Height + Width)		Round Section Bus-Bar (Diameter Range)	
				
	Min (mm)	Max (mm)	Min (mm)	Max (mm)
RIBT 015/006	12	18	6.5	12
RIBT 020/008	15	24	9	16
RIBT 025/010	19	31	11	20
RIBT-(T) 030/012	22	38	13.5	25
RIBT-(T) 040/016	29	50	18	34
RIBT-(T) 050/020	36	63	22	42
RIBT-(T) 060/024	43	76	26	51
RIBT-(T) 070/028	50	89	31	60
RIBT-(T) 080/032	57	102	35	69
RIBT-(T) 100/040	70	130	44	86
RIBT-(T) 120/048	70	156	44	100



**Note – for rectangular section bus-bar it is recommended that the edges have a minimum rounded edge of 0.8mm*

Clearance Reduction Guidance

The table below gives recommendations on the potential reduction in clearances that can be achieved by using the RIBT or RIBT-T tubing on bus-bar sections.

However, they are intended for guidance only and the user should satisfy themselves through testing of the suitability for a specific application.

Rectangular Section Bus-Bar					
System Voltage	Without (Air Clearance) IEC 60071.2	With one layer of RIBT		With one layer of RIBT-T	
kV	Phase-Phase	Phase-Phase	Phase-Earth	Phase-Phase	Phase-Earth
12	120mm	65mm	75mm	35mm	45mm
17.5	160mm	85mm	105mm	55mm	55mm
24	220mm	115mm	150mm	70mm	70mm
36	320mm	200mm	285mm	140mm	140mm

Round Section Bus-Bar					
System Voltage	Without (Air Clearance) IEC 60071-2	With one layer of RIBT		With one layer of RIBT-T	
kV	Phase-Phase	Phase-Phase	Phase-Earth	Phase-Phase	Phase-Earth
12	120mm	30mm	40mm	30mm	40mm
17.5	160mm	45mm	60mm	45mm	60mm
24	220mm	60mm	90mm	60mm	90mm
36	320mm	100mm	160mm	100mm	160mm

REPL Bus-Bar Insulating Tape RTBM is a dual layer tape combining a heat shrinkable outer tape with excellent insulating and weathering properties with an inner hot melt adhesive layer, to provide moisture tight sealing.

It is used to provide insulation enhancement and protection for copper or aluminium bus-bar sections where tube products cannot easily be applied such as junctions and bends.

When installed, the outer tape shrinks and the inner adhesive layer forms a tight bond between the layers.

A single layer of RTBM applied at $\frac{2}{3}$ overlap will provide AC withstand of a flashover up to 17.5kV. Double layers will increase withstand level up to 36kV.

It is suitable for both indoor and outdoor applications.

- Continuous operating temperature up to 90°C
- Can be used in ambient temperatures down to -40°C
- Suitable for indoor and outdoor use
- Unlimited shelf life when stored at <50°C
- Available in rolls of 25/50 and 100mm width
- Colour: Flame Red RAL 3000



Material Properties	Value	Test Method
Minimum Shrink Temperature	120°C	-
Density	1.1g/cm ³ +/-10%	IEC 60684-2 / ASTM D-1505
Water Absorption	<1%	IEC 60684-2 / ASTM D-570
Tensile Strength	>11 MPa	IEC 60684-2 / ASTM D-412
Ultimate Elongation	>500%	IEC 60684-2 / ASTM D-412
Low Temperature Flexibility	No cracking after 4h @40°C	IEC 60684-2
Heat Shock	No cracking or flow	IEC 60684-2
Tensile Strength after heat ageing (150°C for 168hrs)	>10 MPa	IEC 60684-2 / ASTM D-412
Ultimate Elongation after heat ageing (150°C for 168hrs)	>450%	IEC 60684-2 / ASTM D-412
Volume Resistivity	$\geq 1 \times 10^{14} \Omega \text{cm}$	IEC 60093 / ASTM D-229
Dielectric Strength	>20kV/mm	IEC 60243 / ASTM D-149
Dielectric Constant	<3	IEC 60250 / ASTM D-150
Fungus Resistance	No Growth	ASTM G-21
Chemical Resistance	Good	ISO 175 24hrs immersion at room temperature in NaOH 40% strength, Toluene, Acetone and H ₂ SO ₄ 3% strength

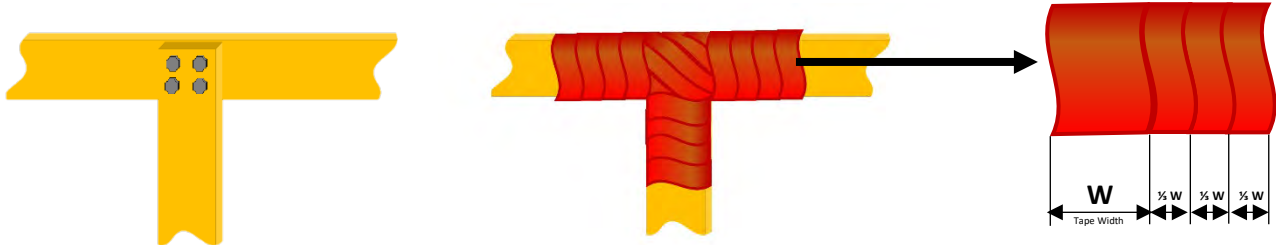
Product Code	As Supplied Width	As Supplied Wall Thickness	Pack Size 5 metre Roll		Pack Size 10 metre Roll	
	mm	mm	Roll dimensions Ø x W (mm)	Roll weight (kgs)	Roll dimensions Ø x W (mm)	Roll weight (kgs)
RTBM-25	25	1.0 +/-0.1	78 x 25	0.15	110 x 25	0.29
RTBM-50	50	1.0 +/-0.1	78 x 50	0.29	115 x 50	0.60
RTBM-100	100	1.0 +/-0.1	80 x 100	0.30	Not Available	



Application Range Guidance

REPL RTBM Heat Shrinkable Bus-Bar Insulating Tape is suitable for round or rectangular section Bus-Bars.

It should be applied around the Bus-Bar with an overlap of 2/3 tape width for optimum performance.



Select the required tape width according to the diameter or width of bus-bar section in the table below.

Product Code	Rectangular Section Bus-Bar		Round Section Bus-Bar	
				
	Diameter Range (mm)	Length of Tape per metre of bus-bar section to be covered @ 2/3 overlap m	Diameter Range (mm)	Length of Tape per metre of bus-bar section to be covered @ 2/3 overlap m
RTBM-25	8 - 15	5	<25	10
RTBM-50	15 - 50	5 - 10	25 - 100	5 - 15
RTBM-100	50 - 100	5 - 10	100 - 200	5 - 15

Clearance Reduction Guidance

The table below gives recommendations on the potential reduction in clearances that can be achieved by using the RTBM tape on bus-bar sections.

However, they are intended for guidance only and the user should satisfy themselves through testing of the suitability for a specific application.

It should be noted that any sharp edges and unusual geometries will affect the performance of the tape.

System Voltage kV	Without (Air Clearance) IEC 60071.2	Rectangular Section Bus-Bar		Round section Bus-Bar	
					
		With one layer of RBTM at 2/3 overlap		With one layer of RBTM at 2/3 overlap	
	Phase-Phase	Phase-Phase	Phase-Earth	Phase-Phase	Phase-Earth
12	120mm	65	75	55	65
17.5	160mm	85	105	70	85
24	220mm	115	150	95	125
36	320mm	200	285	150	205

Black Mastic Contouring/Sealing Tape

RMBK is a black mastic sealing tape of approx. 2mm thickness which can be used to fill voids and cover irregular shapes and sharp edges of armour and other metallic parts and provide a smoothing cushion for Heat Shrinkable materials.

It can also be used for moisture/dust sealing and corrosion protection in cable joints.

It offers excellent adhesion and sealing characteristics to metals, rubbers, polymeric cable insulations and sheaths.

It is supplied in short lengths interleaved with release paper.

Product Code	Thickness	Length	Width
	mm	mm	mm
RMBK2	1.9	200	34
RMBK4	1.9	400	34
RMBK5	1.9	500	34

Material Properties	Value	Test Method
Colour	Black	-
Operating Temperature Range	0°C - 100°C	-
Density	1.2g/cm ³	ISO 1183
Water Absorption	<0.5%	ISO 62
Tensile Strength	>2.0MPa	ASTM D-638
Ultimate Elongation	>200%	ASTM D-638
Volume Resistivity	≥1x10 ¹⁴ Ωcm	IEC 60093
Dielectric Strength	>13kV/mm	IEC 60243
Permittivity	3.0 - 4.0	IEC 60250

Red Mastic Anti-Track Sealing Tape

RMRD is a red tracking resistant mastic sealing tape. It can be used between Heat Shrinkable components and cable sheaths in terminations.

It is supplied in short lengths or 25m rolls interleaved with release paper.

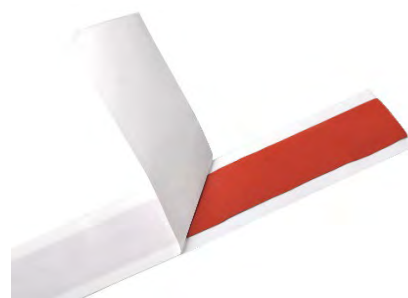
Product Code	Thickness	Length	Width
	mm		mm
RMRD3	0.8	300mm	25
RMRD25	0.8	25m roll	25

Material Properties	Value	Test Method
Colour	Red	-
Operating Temperature Range	0°C - 120°C	-
Density	1.18g/cm ³	ISO 1183
Water Absorption	<0.1%	ISO 62
Tensile Strength	>0.1MPa	ASTM D-638
Ultimate Elongation	>300%	ASTM D-638
Volume Resistivity	≥1x10 ¹⁴ Ωcm	IEC 60093
Dielectric Strength	>15kV/mm	IEC 60243
Permittivity	2.5 - 5.0	IEC 60250

RMBK



RMRD



REPL RWRS Heat Shrinkable Wrap-Around Sleeves are mainly used for repairing outer/inner sheath of cables.

These sleeves are also used for providing corrosion protection to the metallic screens of cables that are exposed to polluted environment and for telecommunication cable joints outer protection

The Wrap-Around Sleeve is made from a thermally stabilised, cross linked, weather resistant, polymeric material. The Sleeves are coated internally with hot melt adhesive to ensure moisture tight sealing.

The sleeve is held whilst shrinking with a stainless steel rail system.

The outer surface of the sleeves have the option of being coated with thermos-chromatic paint.

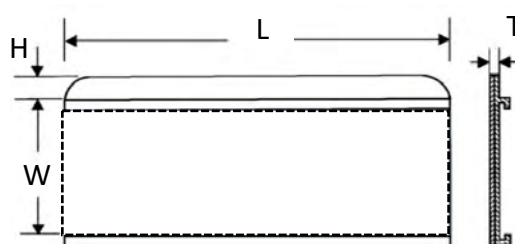


RWRS



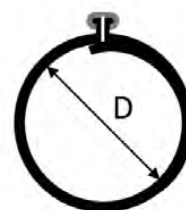
Features:

- Unlimited shelf life
- Excellent resistance to chemicals and solvents
- Continuous operating temperature: 50°C to 90°C
- Available in a range of sizes to cover diameters from 12 to 150mm
- Conforms to specifications: IEC 60684-3, ENATS 09-11, RoHS 2011/65/EU & 2015/863/EU Compliant



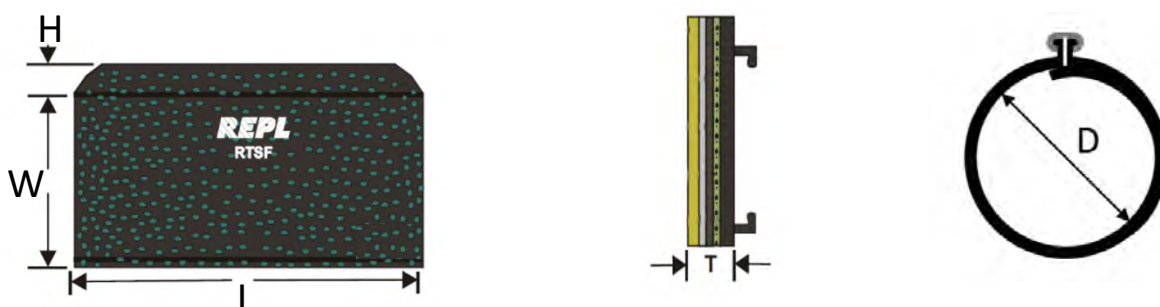
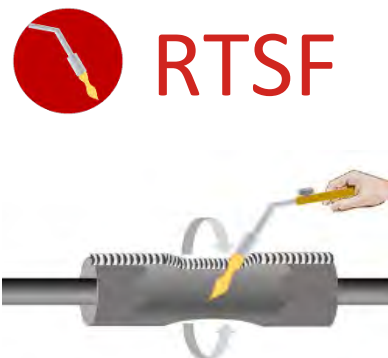
Product Code	Application Range ØD	Thickness T	Width W	Overlap H	Length* L
	mm	mm	mm	mm	mm
RWRS 43/08	12 - 25	1.2	145 ^{+/-5}	20	1000/1200
RWRS 52/10	15 - 35	1.2	175 ^{+/-5}	20	1000/1200
RWRS 82/22	20 - 50	1.2	260 ^{+/-5}	20	1000/1200
RWRS 100/30	30 - 70	1.2	350 ^{+/-5}	30	1000/1200
RWRS 139/38	40 - 90	1.2	460 ^{+/-5}	30	1000/1200
RWRS 185/55	60 - 120	1.2	576 ^{+/-5}	30	1000/1200
RWRS 210/55	80 - 150	1.2	630 ^{+/-5}	30	1000/1200

*other lengths can be supplied upon request



Material Properties	Value	Test Method
Density	1.19 g/cm ³ +/-10%	ISO 1183 Method A
Water Absorption	<0.1%	ISO 62 Method 1
Tensile Strength	>17.5 MPa	ISO 37 / ASTM D-412
Ultimate Elongation	>300%	ISO 37 / ASTM D-412
Low Temperature Flexibility	No cracking after 4h @ -40°C	ASTM D2671 Procedure C
Tensile Strength after heat ageing (150°C for 168hrs)	>15 MPa	ISO 37 / ASTM D-412
Ultimate Elongation after heat ageing (150°C for 168hrs)	>200%	ISO 37 / ASTM D-412
Dielectric Strength	>12kV/mm	IEC 60243 / ASTM D-149
Chemical Resistance	Good	ISO 175 24hrs immersion at room temperature in NaOH 40% strength, Toluene, Acetone and H ₂ SO ₄ 3% strength

REPL's Reinforced Heat Shrinkable Splice Closure System (RTSF) is designed to provide excellent split resistance, and environmental and mechanical protection for telecom and power cable joints. The RTSF sleeves are made from a composite laminate material consisting of reinforcing glass fibres, polyethylene layers, an aluminium layer for moisture vapour transmission and hot melt adhesive on the inner surface. The sleeves are supplied in wraparound form along with stainless steel channels to make the sleeves cylindrical prior to shrinking. The outer surface of the sleeves are coated with thermos-chromatic paint which changes colour to indicate optimum shrinking. On application of heat, the inner adhesive layer melts and bonds to the cable surface to provide a waterproof seal.



Product Code	Application Range	Thickness	Width	Overlap	Length*
	Range ØD mm	T mm	W mm	H mm	L mm
RTSF 42/08	12 - 25	1.5	180 ± 10	12	Up to 1500
RTSF 75/15	20 - 50	1.5	275 ± 10	12	Up to 1500
RTSF 92/25	30 - 60	1.5	330 ± 10	20	Up to 1500
RTSF 122/30	40 - 80	1.5	430 ± 15	20	Up to 1500
RTSF 160/42	60 - 100	1.5	560 ± 15	20	Up to 1500
RTSF 200/50	70 - 140	1.5	685 ± 15	20	Up to 1500

*lengths can be customised upon request

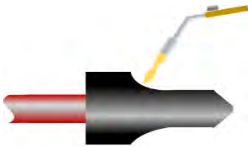
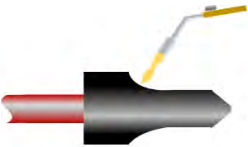
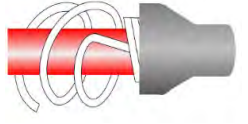
Material Properties	Value	Test Method
Water Absorption	<0.1%	ISO 62 Method 1
Bursting Strength	>1800 N	ISO 3303
Corrosion Effect	No Cracks	ASTM D-2671
Low Temperature Flexibility	No cracking after 4h -40°C	ASTM D2671 Procedure C
Dielectric Strength	>12kV/mm	IEC 60243 / ASTM D-149
Chemical Resistance	Good	ISO 175 24hrs immersion at room temperature in NaOH 40% strength, Toluene, Acetone and H ₂ SO ₄ 3% strength
Temperature Indicating Paint		
Colour Conversion Range	No Change in colour	Visual
150°C for 30 Minutes		
250°C for 5 Minutes	Change in colour	Visual



REPL manufacture a wide range of moulded components for Cable applications.

Cable End caps in both Heat Shrinkable and Cold Shrinkable are available for quick and convenient end sealing of cables ends after cutting to prevent moisture ingress.

Cable Breakouts provide a seal at the crutch position of multicore cables.

	Part Code	Description	Page
	EC	Heat Shrinkable Cable End Cap	88
	ECC	Conductive Heat Shrinkable Cable End Cap	89
	CSEC	Cold Shrinkable Cable End Cap	90
	EB	Heat Shrinkable Cable Breakout	91

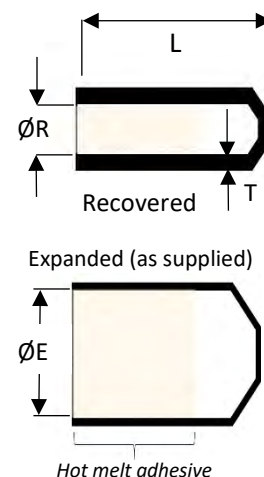
Heat Shrinkable End Caps are used to provide a moisture tight seal on all types of cables or cylindrical pipes.

The caps are lined with a hot melt adhesive to provide a moisture tight seal. The end cap is made from thermally stabilised, cross linked polymer and are suitable for use in temperatures between -30°C and +110°C, and with internal pressures up to 0.05MPa.

- Can be fitted over all types of plastic, metal and other materials
- Resistant to moisture
- UV resistant - Unlimited Shelf life
- Quick and easy installation
- Standard Colour: Black
- Conforms to specifications: IEC 62329-3, ENATS 09-11, RoHS 2011/65/EU & 2015/863/EU Compliant



Product Code	Ø max-min Application Range	ØE Expanded	ØR Recovered	T Thickness Recovered	L Length Recovered*
	mm	mm	mm	mm +/-20%	mm +/-10%
EC/008/03/025	3 - 6	8	3	2.0	25
EC/012/03/038	3 - 10	12	3	2.3	38
EC/016/06/045	6 - 14	16	6	2.5	45
EC/042/15/105	15 - 38	42	15	3.2	105
EC/062/25/105	25 - 58	62	25	4.2	105
EC/075/34/105	34 - 70	75	34	3.5	105
EC/100/59/110	59 - 95	100	59	4.0	110
EC/158/58/190	58 - 150	158	58	4.0	190



*Due to REPL's flexible manufacturing process, we can offer variations in the standard lengths, or other sizes of caps – please contact your local sales office

Material Properties	Value	Test Method
Minimum Shrink Temperature	125°C	-
Density	1 g/cm ³ +/-10%	IEC 62329-2/ ASTM D-1505
Water Absorption	<0.2%	IEC 62329-2 / ASTM D-570
Tensile Strength	>21 MPa	IEC 62329-2 / ASTM D-412
Ultimate Elongation	500%	IEC 62329-2 / ASTM D-412
Low Temperature Flexibility	No cracking after 4h @ -40°C	IEC 62329-2
Tensile Strength after heat ageing (150°C for 168hrs)	>18 MPa	IEC 62329-2 / ASTM D-412
Ultimate Elongation after heat ageing (150°C for 168hrs)	>200%	IEC 62329-2 / ASTM D-412
Hardness	43 +/-5 Shore D	ISO 868 / ASTM D-2240
Volume Resistivity	≥1x10 ¹⁴ Ωcm	IEC 60093 / ASTM D-229
Dielectric Strength	≥12kV/mm	IEC 60243 / ASTM D-149
Dielectric Constant	>5	IEC 60250 / ASTM D-150



Conductive End Caps perform the same function as a standard Heat Shrinkable End Cap, but with added feature of neutralising any potential induced voltages from nearby live power cables or static charges within the cable cores.

The caps are lined with a hot melt adhesive to provide a moisture tight seal and also have a conductive mastic coating in the base of the cap to ensure contact with the cable metallic parts.

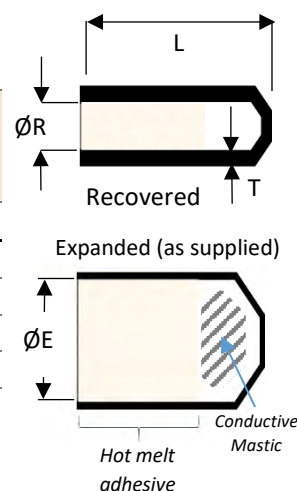
The end caps are made from thermally stabilised, cross linked conductive polymer and is suitable for use in temperatures between -30°C and +110°C, and internal pressures up to 0.05MPa. They can be fitted over all types of plastic, metal and other materials

- Resistant to moisture
- UV resistant - unlimited shelf life
- Quick and easy installation
- Standard colour: Black
- Conforms to specifications: IEC 62329-3, ENATS 09-11, RoHS 2011/65/EU & 2015/863/EU Compliant



Product Code	Ø max-min Application Range	ØE Expanded	ØR Recovered	T Thickness Recovered	L Length Recovered*
	mm	mm	mm	mm +/-20%	mm +/-10%
ECC/042/15/105	15 - 38	42	15	3.2	105
ECC/055/25/145	25 - 50	55	25	3.2	145
ECC/075/34/160	34 - 70	75	34	3.5	160
ECC/105/45/160	45 - 100	105	45	3.5	160

*Due to REPL flexible manufacturing process, we can offer variations in the standard lengths, or other sizes of caps – please contact your local sales office



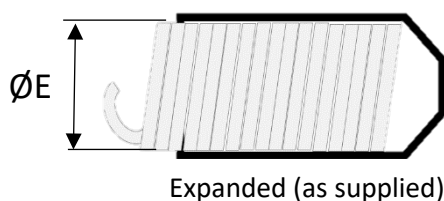
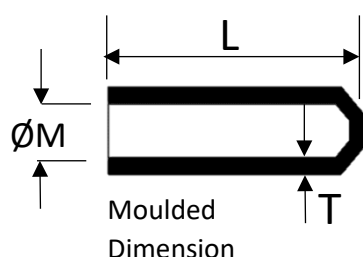
Material Properties	Value	Test Method
Minimum Shrink Temperature	125°C	-
Density	1 g/cm ³ +/-10%	IEC 62329-2/ ASTM D-1505
Water Absorption	<1 %	IEC 62329-2 / ASTM D-570
Tensile Strength	> 18 MPa	IEC 62329-2 / ASTM D-412
Ultimate Elongation	300%	IEC 62329-2 / ASTM D-412
Low Temperature Flexibility	No cracking after 4h @- 40°C	IEC 62329-2
Tensile Strength after heat ageing (150°C for 168hrs)	>15 MPa	IEC 62329-2 / ASTM D-412
Ultimate Elongation after heat ageing (150°C for 168hrs)	>250%	IEC 62329-2 / ASTM D-412
Hardness	40 +/-5 Shore D	ISO 868 / ASTM D-2240
Volume Resistivity	<1x10 ⁶ Ωcm	ISO 3915 / ASTM D-229

Cold Shrinkable End Caps are a convenient method to provide a moisture tight seal on all types of cable or conduits without the use of a heat source or special tools.

The caps are supplied pre-expanded on a removable core which is easily removed when the cap is placed in position by pulling out the spiral core and allowing the elastomeric end cap to shrink down to its original memory.



- Can be fitted over all types of plastic, metal and other materials
- Resistant to moisture
- UV resistant
- Quick and easy installation using no heat source or tools
- Easily removed
- Standard Colour : Black
- Range of sizes covers diameters between 12mm and 75mm
- Conforms to specifications: **RoHS 2011/65/EU & 2015/863/EU Compliant**



Product Code	Ø max-min Application Range	ØE Expanded	ØM Moulded	T Thickness Moulded	L Length Moulded*
	mm	mm	mm	mm +/-20%	mm +/-10%
CSEC 20/12	12 - 17	20	12	2.5	100
CSEC 28/16	18 - 24	28	16	2.5	100
CSEC 55/23	25 - 45	55	23	2.5	100
CSEC 80/46	46 - 76	80	46	2.8	100

Material Properties	Value	Test Method
Density	1.1 g/cm ³ +/-10%	ISO 2781 / ASTM D-1505
Water Absorption	<2%	ISO 62 / ASTM D-570
Tensile Strength	>9 MPa	ISO 37 / ASTM D-412 87
Ultimate Elongation	750%	ISO 37 / ASTM D-412 87
Tensile Strength after heat ageing (150°C for 168hrs)	>6 MPa	ISO 37 / ASTM D-412
Ultimate Elongation after heat ageing (150°C for 168hrs)	>600%	ISO 37 / ASTM D-412
Hardness	40 +/-5 Shore C	ISO 48 / ASTM D-2240
Volume Resistivity	≥1x10 ¹⁰ Ωcm	ISO 60093 / ASTM-D-229
Dielectric Strength	≥10kV/mm	ISO 60243 / ASTM-D-149
Dielectric Constant	>4	ISO 60250 / ASTM-D-150

Heat Shrinkable Cable Breakouts provide an environmental and mechanical seal to the crutch of plastic and paper insulated cables, rated up to 1.2kV.

The Breakout is made from thermally stabilised, cross linked, polymeric material and are internally coated with hot melt adhesive for a weathertight seal between cable sheaths and the insulated cores.

The breakouts are available in 2 - 5 core versions for power cables with or without armouring and also as a special 6 way type for cables with 3 main cores and 3 smaller control or auxiliary cores.

- Can be fitted over all types of cable
- Resistant to moisture
- UV resistant - Unlimited Shelf life
- Quick and easy installation
- Standard Colour: Black
- Conforms to specifications: IEC 62329-3, ENATS 09-11, RoHS 2011/65/EU & 2015/863/EU Compliant



EB2

2-way breakout



EB3

3-way breakout



EB4

4-way breakout



EB5

5-way breakout

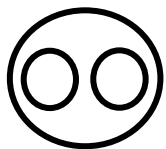
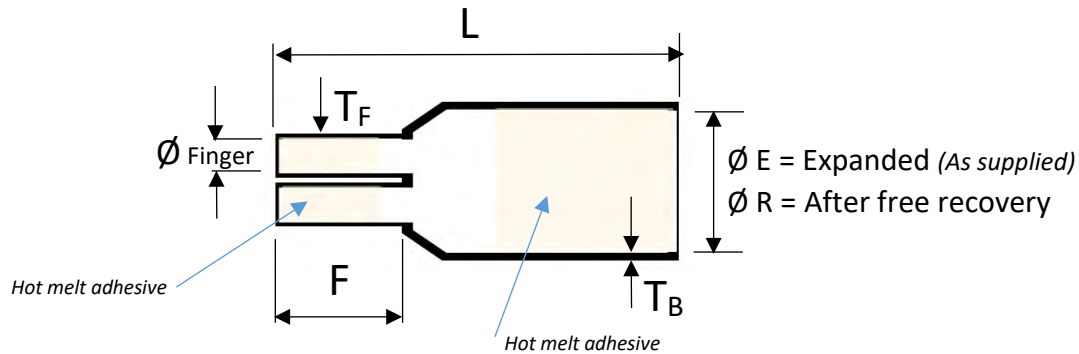


EB6

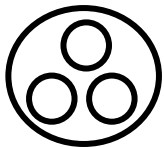
6-way breakout

FOR PRODUCT DIMENSIONS, SEE TABLES OVERLEAF

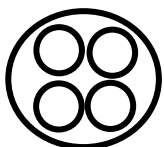
Material Properties	Value	Test Method
Minimum Shrink Temperature	125°C	-
Density	1 g/cm ³ +/-10%	IEC 62329-2 / ASTM D-1505
Water Absorption	<0.2%	IEC 62329-2 / ASTM D-570
Tensile Strength	>21 MPa	IEC 62329-2 / ASTM D-412
Ultimate Elongation	500%	IEC 62329-2 / ASTM D-412
Low Temperature Flexibility	No cracking after 4h @ -40°C	IEC 62329-2
Tensile Strength after heat ageing (150°C for 168hrs)	>18 MPa	IEC 62329-2 / ASTM D-412
Ultimate Elongation after heat ageing (150°C for 168hrs)	>200%	IEC 62329-2 / ASTM D-412
Hardness	43 +/-5 Shore D	ISO 868 / ASTM D-2240
Volume Resistivity	≥1x10 ¹⁵ Ωcm	IEC 60093 / ASTM D-229
Dielectric Strength	≥10kV/mm	IEC 60243 / ASTM D-149
Dielectric Constant	>4	IEC 60250 / ASTM D-150



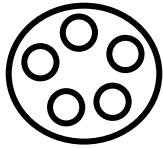
2 – way Product Code	*Cable Conductor	Main Body			Cable Finger				L
		ØE	ØR	T _B	ØE	ØR	T _F	F	
		mm	mm	mm +/-20%	mm	mm	mm +/-20%	mm +/-10%	
EB2/030/10	4 - 25	30	10	1.5	12	3	1.0	17	90
EB2/050/24	35 - 150	50	24	3.0	21	7	2.5	27	121
EB2/090/45	185 - 300	90	45	2.2	43	15	2.2	65	195
EB2/115/40	>300	115	40	2.5	53	15	2.5	70	185



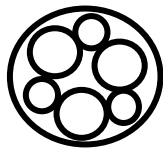
3 – way Product Code	*Cable Conductor	Main Body			Cable Finger				L
		ØE	ØR	T _B	ØE	ØR	T _F	F	
		mm	mm	mm +/-20%	mm	mm	mm +/-20%	mm +/-10%	
EB3/028/09	4 - 25	28	9	2.5	9	3	1.8	16	72
EB3/035/15	35 - 70	35	15	2.5	13	4	1.8	21	102
EB3/055/23	70 - 95	55	23	3.3	25	8	2.5	36	177
EB3/075/28	120 - 150	75	28	3.5	35	13	3.0	45	215
EB3/110/35	185 - 300	110	35	4.0	50	17	3.5	52	210
EB3/135/56	400	135	56	4.0	70	21	3.5	52	220
EB3/170/56	>400	170	56	3.8	81	27	2.8	58	220



4 – way Product Code	*Cable Conductor	Main Body			Cable Finger				L
		ØE	ØR	T _B	ØE	ØR	T _F	F	
		mm	mm	mm +/-20%	mm	mm	mm +/-20%	mm +/-10%	
EB4/028/09	4 - 35	28	9	2.2	8	2	1.7	16	80
EB4/035/15	50 - 70	35	15	2.5	13	4	1.8	22	100
EB4/047/23	70 - 120	47	23	3.0	20	8	3.0	36	170
EB4/060/25	120 - 150	60	25	4.2	20	8	3.0	43	190
EB4/078/36	185 - 240	78	36	3.9	30	12	3.0	50	220
EB4/095/36	240 - 300	95	36	3.5	35	14	3.0	50	220
EB4/150/55	400	150	55	3.0	46	14	3.0	50	220



5 – way Product Code	*Cable Conductor	Main Body			Cable Finger				L
		ØE	ØR	T _B	ØE	ØR	T _F	F	
	mm ²	mm	mm	mm +/-20%	mm	mm	mm +/-20%	mm +/-10%	
EB5/035/15	4 - 50	35	15	2.5	20	4	1.8	20	90
EB5/070/15	70 - 150	70	15	2.0	20	4	2.0	24	100
EB5/102/35	120 - 300	102	33	4.1	35	9	3.2	40	210



6 Way Version

This version has three larger diameter fingers for main power cores, and three smaller diameter fingers equally spaced to accommodate control/pilot cables.

6 – way Product Code	Main Body			Main Cable Finger				Small Finger		L
	ØE	ØR	T _B	ØE	ØR	T _F	F	ØE	ØR	
	mm	mm	mm +/- 20%	mm	mm	mm +/- 20%	mm +/-10%	mm	mm	
EB6/115/54	115	54	4.3	54	20	3.0	60	31	13	190

*Cable Conductor diameter is guide only – check actual cable OD with armour etc. to ensure correct selection

All dimensions in the tables are based on full free recovery of moulding, except for Ø E

The tables in the following pages give dimensional data on typical cable constructions to enable selection of the correct accessory.

However, it must be stressed that this can only be used as a general guide – cable constructions can vary considerably in different territories and networks and between manufacturers.

The types and number of layers of screen, the arrangement and material of conductor and the general thickness of respective layers will all affect the dimensions of the cable.

Therefore, the final selection of accessory should be based on the actual cables to be sure of correct selection.

The main information which is needed when selecting accessories:

$\varnothing_{\text{cond}}$ = Overall diameter of conductor

This is needed to ensure any connector or lug will correctly fit – the tables are based on typical Class 2 stranded conductors – but variations such as solid conductor or water-blocking materials can influence the dimensions. (Normally the cable cross sectional area is quoted rather than the conductor diameter).

$\varnothing_{\text{ins}}$ = Overall diameter of insulation

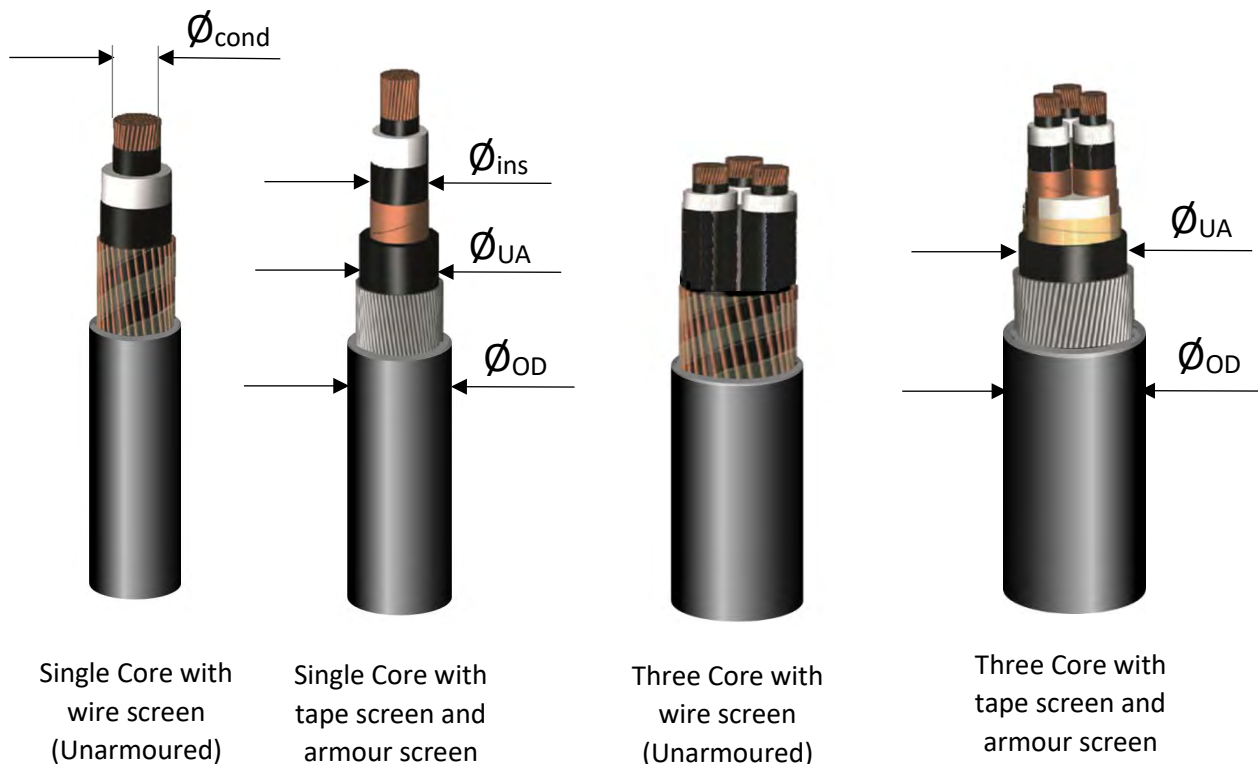
This is very important in medium voltage systems (>3.6kV), as the accessory needs to be a very tight fit around the critical parts at the screen cut. The information in the tables is based on cables with insulation thickness based on CENELEC HD620.A3, however it should be noted that there are regional variations in insulation wall thickness and also some manufacturer's tolerance can affect the actual values.

$\varnothing_{\text{UA}}$ = Diameter under armour

When making a good connection from cable armours, it is necessary to use a support ring under the armour and therefore the diameter which the support collar needs to fit over is important.

$\varnothing_{\text{OD}}$ = Diameter over the outer jacket

The overall diameter of cables can dictate if tubing or other materials can be used without problems with clearances.



0.6/1 (1.2)kV

IEC 60502-1 Part1

										
	Single Core Armoured		Two Core Armoured		Three Core Armoured		Four Core Armoured		Five Core Armoured	
Conductor Cross Section	∅ UA	∅ OD	∅ UA	∅ OD	∅ UA	∅ OD	∅ UA	∅ OD	∅ UA	∅ OD
mm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
2.5	-	-	8.5	13.6	9.1	14.1	10.0	15.0	11.7	16.1
4	-	-	9.7	11.6	10.4	15.3	11.5	16.4	13.0	17.8
6	-	-	10.7	12.6	11.5	16.6	12.7	18.7	14.5	20.0
10	-	-	12.7	18.0	13.7	19.5	15.1	21.1	17.2	22.9
16	-	-	14.5	20.0	15.5	21.2	17.2	22.9	20.0	26.6
25	-	-	18.4	24.1	20.1	26.7	22.3	28.9	24.7	31.5
35	-	-	21.3	28.0	22.8	29.6	25.3	32.1	27.8	34.8
50	-	-	19.0	25.8	21.7	28.5	25.0	32.0	32.4	40.4
70	14.7	20.0	22.0	29.0	25.2	32.2	29.5	37.7	-	-
95	16.3	21.6	25.1	33.1	28.8	37.0	33.3	41.7	-	-
120	17.9	23.2	27.9	36.1	32.0	40.4	37.5	47.1	-	-
150	19.8	25.8	30.9	39.3	35.9	45.5	41.6	51.4	-	-
185	22.0	28.0	34.9	44.7	40.0	49.8	46.4	56.6	-	-
240	24.5	30.5	39.0	59.0	44.9	55.1	52.6	63.0	-	-
300	27.3	33.5	43.3	53.5	49.8	60.2	58.0	68.8	-	-
400	30.2	37.4	48.4	59.0	55.4	66.6	64.8	78.1	-	-
500	33.3	40.7	-	-	-	-	-	-	-	-
630	37.3	44.9	-	-	-	-	-	-	-	-
800	45.8	54.8	-	-	-	-	-	-	-	-
1000	49.2	58.4	-	-	-	-	-	-	-	-

1.9/3.3 (3.6)kV

IEC 60502-1 Part1

				
	Single Core Armoured		Three Core Armoured	
Conductor Cross Section	∅ UA	∅ OD	∅ UA	∅ OD
mm ²	mm	mm	mm	mm
16	-	-	22.1	29.0
25	-	-	25.4	32.2
35	-	-	28.0	35.0
50	12.7	17.5	26.7	34.7
70	14.7	20.2	29.8	38.0
95	16.6	22.3	33.0	41.4
120	18.5	24.2	36.1	45.7
150	20.8	27.4	38.7	48.5
185	23.2	30.0	41.9	51.9
240	26.0	32.8	46.7	56.9
300	28.6	35.6	50.8	61.2
400	32.4	40.4	55.8	66.6
500	36.0	44.2	-	-
630	40.4	48.8	-	-
800	45.6	55.4	-	-
1000	50.6	60.6	-	-

3.6/6 (7.2)kV

3.8/6.6 (7.2)kV

CENELEC HD620 A3

2.5–3.2mm nominal insulation thickness

								
			Single Core Unarmoured	Single Core Armoured		Three Core Unarmoured	Three Core Armoured	
Conductor Cross Section	Ø Cond	Ø Ins	Ø OD	Ø UA	Ø OD	Ø OD	Ø UA	Ø OD
mm ²	mm	mm	mm	mm	mm	mm	mm	mm
50	8.4	14.4	20.0	18.9	25.7	40.5	38.8	49.0
70	9.9	15.9	22.0	20.7	27.5	44.0	42.5	52.5
95	11.6	17.6	23.7	22.4	29.4	48.0	46.2	56.5
120	13.0	19	25.5	23.9	30.9	51.0	49.6	60.0
150	14.5	20.5	26.8	25.2	32.4	54.5	53.0	63.5
185	16.1	22.1	28.8	27.0	35.0	58.0	56.0	67.0
240	18.4	24.4	31.2	29.4	37.6	64.0	61.4	73.0
300	20.6	26.6	34.2	32.4	40.8	70.0	68.0	81.0
400	23.7	29.7	37.7	35.5	44.1	78.0	75.1	89.0
500	26.6	32.6	41.3	39.0	49.0	-	-	-
630	29.8	35.8	44.9	42.6	52.8	-	-	-
800	33.6	39.6	49.0	45.0	56.0	-	-	-
1000	37.6	43.6	52.8	49.9	60.0	-	-	-

6/10 (12)kV

6.35/11 (12)kV

CENELEC HD620 A3

3.4mm nominal insulation thickness

								
			Single Core Unarmoured	Single Core Armoured		Three Core Unarmoured	Three Core Armoured	
Conductor Cross Section	Ø Cond	Ø Ins	Ø OD	Ø UA	Ø OD	Ø OD	Ø UA	Ø OD
mm ²	mm	mm	mm	mm	mm	mm	mm	mm
50	8.4	17.0	23.7	24.7	27.7	41.6	39.1	53.1
70	9.9	18.8	25.7	26.7	29.7	45.6	43.1	57.1
95	11.6	20.5	27.4	28.4	31.4	49.7	47.2	61.2
120	13.0	22.0	29.2	30.1	33.1	53.5	51.0	65.0
150	14.5	23.3	30.5	32.4	35.4	56.5	54.0	68.0
185	16.1	25.1	32.5	34.2	37.2	60.8	58.3	72.3
240	18.4	27.3	34.9	36.8	39.8	66.0	63.0	79.0
300	20.6	29.6	37.2	39.3	42.3	71.5	68.5	84.5
400	23.7	32.3	40.1	42.2	45.2	77.9	74.9	90.9
500	26.6	35.2	43.2	46.5	49.5	-	-	-
630	29.8	38.6	46.9	50.3	53.3	-	-	-
800	33.6	37.9	45.9	48.1	51.1	-	-	-
1000	37.6	41.9	50.1	52.5	55.5	-	-	-

8.7/15 (17.5)kV

CENELEC HD620 A3

4.5mm nominal insulation thickness




			Single Core Unarmoured			Three Core Unarmoured		
Conductor Cross Section	Ø Cond	Ø Ins	Ø OD	Ø UA	Ø OD	Ø OD	Ø UA	Ø OD
mm ²	mm	mm	mm	mm	mm	mm	mm	mm
50	8.4	18.2	27.5	28.7	33.0	50.9	48.2	59.0
70	9.9	19.7	29.0	30.2	35.0	55.0	52.1	62.9
95	11.6	21.4	31.0	32.2	37.0	59.0	56.0	67.0
120	13.0	22.8	32.5	33.7	39.0	62.4	59.4	70.6
150	14.5	24.3	34.0	35.2	41.0	65.4	62.2	73.6
185	16.1	25.9	35.5	36.7	42.0	69.5	66.3	79.4
240	18.4	28.2	38.0	39.2	45.0	74.6	71.2	84.7
300	20.6	30.4	40.5	41.7	47.0	80.1	76.4	90.1
400	23.7	33.5	44.0	45.2	52.0	86.3	82.4	96.7
500	26.6	36.4	47.4	48.6	57.0	-	-	-
630	29.8	39.6	50.2	51.4	59.0	-	-	-
800	33.6	43.4	54.2	55.4	66.0	-	-	-
1000	37.6	47.4	58.4	59.6	71.0	-	-	-

12/20 (24)kV

12.7/22 (24)kV

CENELEC HD620 A3

5.5mm nominal insulation thickness




			Single Core Unarmoured			Three Core Unarmoured		
Conductor Cross Section	Ø Cond	Ø Ins	Ø OD	Ø UA	Ø OD	Ø OD	Ø UA	Ø OD
mm ²	mm	mm	mm	mm	mm	mm	mm	mm
50	8.4	21.6	27.4	27.8	35.0	59.0	56.2	67.0
70	9.9	23.4	28.8	30.8	38.0	63.0	60.2	71.0
95	11.6	25.1	30.6	32.8	40.0	67.0	64.2	75.0
120	13.0	26.6	32.5	33.8	41.0	70.0	67.6	80.0
150	14.5	27.9	34.0	35.8	43.0	74.0	72.2	83.0
185	16.1	31.9	35.5	37.8	45.0	78.0	77.2	88.0
240	18.4	34.2	37.3	39.4	47.0	84.0	80.8	94.0
300	20.6	36.9	39.7	43.4	51.0	89.0	85.8	99.0
400	23.7	39.8	42.2	46.4	54.0	95.0	92.8	106.0
500	26.6	43.2	45.6	49.4	57.0	-	-	-
630	29.8	45.8	48.5	53.4	61.0	-	-	-
800	33.6	50.0	53.2	60.4	68.0	-	-	-
1000	37.6	54.1	57.3	65.4	73.0	-	-	-

18/30 (36)kV

19/33 (36)kV

CENELEC HD620 A3

8.0mm nominal insulation thickness

			Single Core Unarmoured			Single Core Armoured			Three Core Unarmoured			Three Core Armoured		
Conductor	Ø Cond	Ø Ins	Ø OD	Ø UA	Ø OD	Ø OD	Ø UA	Ø OD	Ø OD	Ø UA	Ø OD	Ø OD	Ø UA	Ø OD
Cross Section														
mm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
50	8.4	25.4	34.0	33.5	42.0	74.0	66.7	81.0						
70	9.9	26.9	36.0	34.5	43.0	78.0	70.7	85.0						
95	11.6	28.6	38.0	36.5	45.0	82.0	74.7	89.0						
120	13.0	30.0	40.0	38.5	47.0	85.0	78.7	93.0						
150	14.5	31.5	41.0	41.5	50.0	89.0	81.7	96.0						
185	16.1	33.1	43.0	43.5	52.0	93.0	85.7	100.0						
240	18.4	35.4	46.0	45.5	54.0	98.0	91.7	106.0						
300	20.6	37.6	48.0	48.5	57.0	104.0	97.7	112.0						
400	23.7	40.7	51.0	51.5	60.0	111.0	103.7	118.0						
500	26.6	43.6	54.0	54.5	63.0	-	-	-						
630	29.8	46.8	58.0	58.5	67.0	-	-	-						
800	33.6	50.6	65.0	65.5	74.0	-	-	-						
1000	37.6	54.6	70.0	70.5	79.0	-	-	-						

20.8/36 (42)kV

CENELEC HD620 A3

8.8mm nominal insulation thickness

			Single Core Unarmoured			Single Core Armoured		
Conductor	Ø Cond	Ø Ins	Ø OD	Ø UA	Ø OD	Ø UA	Ø OD	Ø OD
Cross Section								
mm ²	mm	mm	mm	mm	mm	mm	mm	mm
50	8.4	26.4	35.6	34.8	43.8			
70	9.9	27.9	37.6	35.8	44.8			
95	11.6	29.6	39.6	37.8	46.8			
120	13.0	31.0	41.6	39.8	48.8			
150	14.5	32.5	42.6	42.8	51.8			
185	16.1	34.1	44.6	44.8	53.8			
240	18.4	36.4	47.6	45.8	55.8			
300	20.6	38.6	49.6	48.8	58.8			
400	23.7	41.7	52.6	51.8	61.8			
500	26.6	44.6	55.6	54.8	64.8			
630	29.8	47.8	59.6	58.8	68.8			
800	33.6	51.6	66.6	65.8	75.8			
1000	37.6	55.6	71.6	70.8	80.8			

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