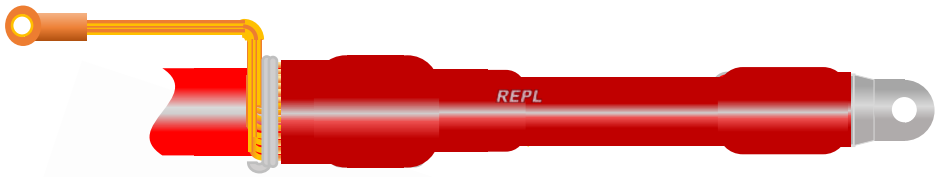
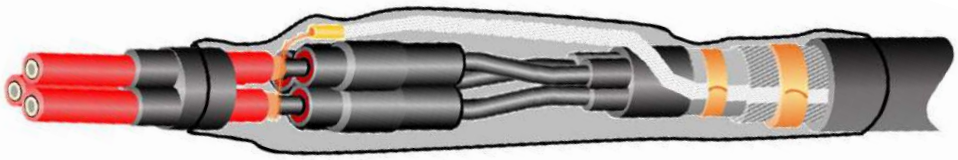
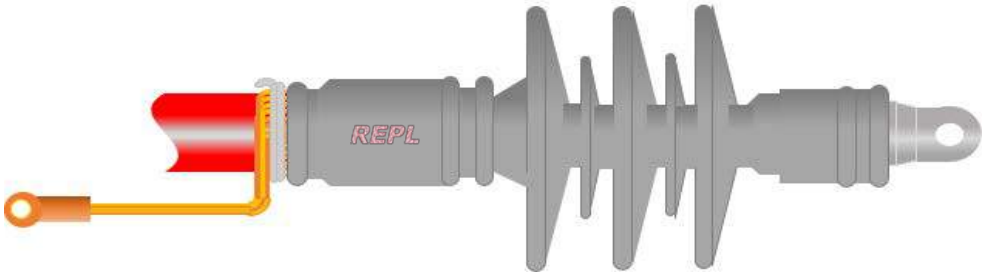
Cable Accessories







Product Catalogue

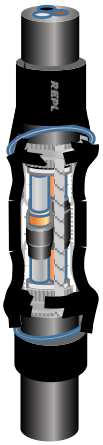
REPL INTERNATIONAL

REPL HAVE BEEN DESIGNING AND MANUFACTURING CABLE ACCESSORIES FOR USE ON ENERGY AND TELECOM CABLES FOR OVER 35 YEARS.
WE SUPPLY OUR PRODUCTS TO MAJOR NETWORK OPERATORS THROUGHOUT THE WORLD.

Contents:

Part 1 : Cable Terminations & Switchgear Connections

Part 2 : Cable Joints & Enclosures



Part 3 : Heat Shrink Tubing , Tapes and Sleeves

Part 4 : Heat Shrink / Cold Shrink Moulded Components

The products shown in this catalogue represent our standard 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.

Part 1: Cable Terminations & Switchgear Connections

RHLT (*Heat Shrink Low Voltage Cable Termination*)

For sealing and protection of indoor and outdoor low voltage 3 or 4 core cables with/without armouring.

KIT PRODUCT CODE SELECTOR

Typical Code: RHLTA 240-300 - 3

Cable Construction	Cable Size Range (mm²)	No of Cores
U = Unarmoured Cable	4 – 6	3 = 3 Core Cable
A = Armoured Cable	10 – 35	4 = 4 core Cable
	50 – 95	
	120 – 185	
	240 -300	
	400	

RHT-X (*Heat Shrink Medium Voltage Polymeric Cable Termination up to 42kV*)

RHT-P (*Heat Shrink Medium Voltage Paper Cable Termination up to 36kV*)

For terminating polymeric insulated cables up to 42kV
For terminating paper insulated cables up to 36kV
Red anti-tracking tubes for excellent weathering protection
Stress control tubing for field control at screen cut
Kits can be supplied for single and three core cable designs with/without armouring
Suitable for mechanical or compression cable lugs
Fully tested to CENELEC HD 629 / IEC 60502-4

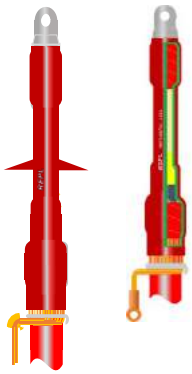
KIT PRODUCT CODE SELECTOR

Typical Code: RHTO-12X-95-185-3 /e-ML-G-FB

Environment	Voltage	Cable Type	Cable Size Range (mm²)	No of Cores	Cable Construction	Accessories
I = Indoor	7 = 7.2 kV	X = Polymeric Insulated	35 – 95	1 = 1 Core Cable	No suffix = Unarmoured Cable	LA = Aluminium compression lug
O = Outdoor	12 =11 kV	P = Paper Insulated	95 – 185	3 = 3 core Cable	/e = Armoured Cable	LC = Copper compression lug
	17 = 17.5 kV		185 – 300			ML = Mechanical torque shear cable lug
	24 = 24 kV		300- 630			G = Bolt-on cable gland
	36 = 36 kV		630-1000			FB = Flexible bushing boots
	42 = 42 kV					RB = Right angle heat shrinkable bushing boot
						SB = Straight heat shrinkable bushing boot

**42kV only for polymeric insulated cables*

RHTS (*Heat Shrink Zinc Oxide Medium Voltage Cable Termination up to 24kV*)



For terminating polymeric insulated cables up to 24kV

Single tube design with red anti-tracking tubes for excellent weathering protection with an internal zinc oxide (ZnO) coating providing stress control around screen cut

Kits can be supplied for single and three core cable designs with/without armouring

Suitable for mechanical or compression cable lugs

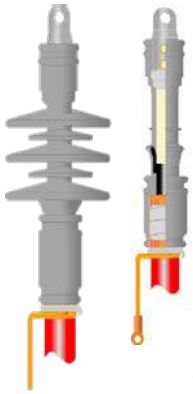
Fully tested to CENELEC HD 629

KIT PRODUCT CODE SELECTOR

Typical Code: RHTSO-12-95-185-1 /e-ML

Environment	Voltage	Cable Size Range (mm^2)	No of Cores	Cable Construction	Accessories
I = Indoor	7 = 7.2 kV	35 – 95	1 = 1 Core Cable	No suffix = Unarmoured Cable	LA = Aluminium compression lug
O = Outdoor	12 =11 kV	95 – 185	3 = 3 core Cable	/e = Armoured Cable	LC = Copper compression lug
	17 = 17.5 kV	185 – 300			ML = Mechanical torque shear cable lug
	24 = 24 kV	300- 630			G = Bolt-on cable gland
	36 = 36 kV	630-1000			FB = Flexible bushing boots
	42 = 42 kV				RB = Right angle heat shrinkable bushing boot
					SB = Straight heat shrinkable bushing boot

RCST (*Cold Shrink Medium Voltage Cable Termination up to 36kV*)



For terminating polymeric insulated cables up to 36kV

One piece silicon rubber body with moulded sheds and integrated stress cone

Requires no heat or special tools for installation

Kits can be supplied for single and three core cable designs with/without armouring

Suitable for mechanical or compression cable lugs

Fully tested to CENELEC HD 629

KIT PRODUCT CODE SELECTOR

Typical Code: RCSTO-36-185-630-1 /e-ML

Environment	Voltage	12-24 kV Cable Size Range (mm^2)	36 kV Cable Size Range (mm^2)	No of Cores	Cable Construction	Accessories
I = Indoor	7 = 7.2 kV	25 – 95	50 - 150	1 = 1 Core Cable	No suffix = Unarmoured Cable	LA = Aluminium compression lug
O = Outdoor	12 =11 kV	95 – 240	185 - 630	3 = 3 core Cable	/e = Armoured Cable	LC = Copper compression lug
	17 = 17.5 kV	300- 630				ML = Mechanical torque shear cable lug
	24 = 24 kV					G = Bolt-on cable gland
	36 = 36 kV					FB = Flexible bushing boots

RHSB / RHRB (*Heat Shrink Insulating Cable Bushing Boot Kits*)

Heat Shrink Insulating Boots can be used over medium voltage terminations to insulate bushings in 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.

RHRB – Right Angled Heat Shrink Boot		
Product Code	Voltage	Cable size range
RHRB - 1	To 17.5kV	35-185mm²
RHRB - 2	To 17.5kV	90-300mm²
RHRB – 2 24kV	24kV	50-300mm²
RHRB – 3 36kV	36kV	50-630mm²

RHSB – Straight Boot Heat Shrink Boot		
Product Code	Voltage	Cable size range
RHSB - 1	To 17.5kV	35-185mm²
RHSB - 2	To 17.5kV	90-300mm²

RCFB (*Flexible Insulating Cable Bushing Boot Kits*)

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 shrink or cold applied terminations. The boots are installed easily without special tooling and can be removed for testing and then reinstalled.

Kit Number	Maximum Voltage	Bushing Diameter Range	Cable Size Range
RCFB-2	24kV	46-70mm	185-630mm²
RCFB-1	24kV	46-70mm	35-300mm²
RCFB-0	17.5kV	30-45mm	35-300mm²

System Voltage level U_o/U (U_{max}) kV	3.8/6.6 (7.2) kV	6.35/11 (12) kV	8.7/15 (17.5)kV	12/20 (24) kV
Impulse Level (BIL) kV,peak	60kV	95kV	95kV	125kV
Minimum clearance phase to phase (X)	100mm	100mm	100mm	120mm
Minimum clearance phase to earth (Y)	60mm	60mm	75mm	100mm
Minimum clearance between insulating boots (Z)	12mm	12mm	12mm	15mm

RUSK (*Unscreened Cable Termination Adaptor for GIS*)

The REPL Unscreened Separable 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. The RUSC 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.

Kit Number	Maximum Voltage	Cable Size Range
RUSK-1	17.5kV	70-300mm²

RSEK (*Solderless Earth Kit for Metallic Screens*)

Sets of constant force springs and tinned copper braid to provide an earth connection from copper tape screened and armoured medium voltage cables. Kits can be used with all types of MV termination kits on single and three core cables.

Kit Number	Cable Type	Diameter Range mm	Cable Size Range – mm²		
			12kV	24kV	36kV
RSEK-1(1c)	1 core/AWA	14-22	16-70	35-50	
RSEK-1(3c)	3 core/SWA	14-22	16-70	35-50	
RSEK-2(1c)	1 core/AWA	18-29	70-240	95-185	
RSEK-2(3c)	3 core/SWA	18-29	70-240	95-185	
RSEK-3(1c)	1 core/AWA	31-50	300-630	240-630	185-400
RSEK-4(1c)	1 core/AWA	45-76			500-630

**where a termination kit includes suffix (-e/), then these are already included*

RBG (*Bolted Cable Gland*)

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 seal and earth take off point and connection for the armours wires.

All kits are supplied with the metallic gland body, heat shrink sealing tubing or breakout, all hose clips and bolts, nuts, washers and full installation instructions. Three versions are available, depending on the cables to be installed :

RBG-S
For 3-core SWA Cables up to 36kV

Steel Gland body kit for steel wire armoured cables

Kit Number	Stud Spacing	Cable Size Range – mm²			
	mm	7.2kV	12kV	24kV	36kV
RBG-S1	Type X 66 x 66	16-95	16-95	35-150	-
RBG-S2	Type Y 86 x 95	95-400	95-400	50-240	35-150

RBG-A
For 1-core AWA Cables up to 36kV

Set of 3 Aluminium Gland Bodies for aluminium wire armoured cables

Kit Number	Stud Spacing	Cable Size Range – mm²			
	mm	7.2kV	12kV	24kV	36kV
RBG-A	Type X 66 x 66	150-630	70-630	50-630	50-630-

RBG-T
For Triplex Cables up to 24kV

Steel Gland body with heat shrink 3 core breakout for sealing single core unarmoured cables laid up in triplex formation

Kit Number	Stud Spacing	Cable Size Range – mm²	
	mm	12kV	24kV
RBG-T1	Type X 66 x 66	35 to 95	35 to 50
RBG-T2	Type Y 86 x 95	95 to 300	50 to 240

RINS/RISB (*Pole Mounted Bracket & Stand-Off Insulator Kit*)

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. They are used in conjunction with the RISB mounting bracket

Kit Number	System Voltage kV
RINS12	12
RINS24	24
RINS36	36

RPAE/RPAS (*Outer Cone Screened Plug-in Termination 12-24kV Interface A*)

Straight and Elbow connector for terminating polymeric insulated cables onto equipment such as transformers etc. which has standard bushing profile Type A according to the standards EN50180 & EN50181.

Kit Number	Type	Max Current	Cable Size Range – mm²	
			12kV	24kV
RPAE-250-X	Elbow Connector	250A	35-120	35-120
RPAS-250-X	Straight Connector	250A	35-120	35-120

RPCT (*Outer Cone Screened Plug-in Termination 12-36kV Interface C*)

Symmetrical "T" shape and Asymmetrical compact bolted connector for terminating medium voltage cables onto equipment with bushings to Interface C according to the standards EN50180 & EN50181.

Kit Number	Type	Max Voltage	Max Current	Cable Size Range – mm²		
				12kV	24kV	36kV
RPCT-24C	Compact Asymmetrical Elbow connector	24kV	630A	185-300	95-300	-
RPCBT-24C	Coupling Branch connector	24kV	630A	185-300	95-300	-
RPCT-36A	Compact Asymmetrical Elbow connector	36kV	630A	185-300	95-300	50-300
RPCBT-36A	Coupling Branch connector	36kV	630A	185-300	95-300	50-300

RPCBT-24C

RPCT-24C

RPCBT-36A

RPCT-36A

RICP (*Inner Cone Plug-in Termination 12-36kV*)

Cable termination plugs for connecting medium voltage cables to equipment with inner cone bushings according to EN50180 & EN50181

Kit Number	Type	Max Current	Cable Size Range – mm²		
			12kV	24kV	36kV
RICP - 0	Inner Cone Plug Size 0	250A	25	25	-
RICP - 1	Inner Cone Plug Size 1	630A	95-300	95-300	95-300
RICP - 3	Inner Cone Plug Size 3	1250A	300-630	185 - 630	185 – 630

RCL (*Pre-assembled Medium Voltage Cable Loops*)

The RCL pre-assembled cable loops are short lengths of medium voltage cables with a range of pre-installed termination options on both ends which allow customers to provide permanent or temporary connections

These pre-assembled cable loops can be made from a range of cables as per utility/customer requirements.

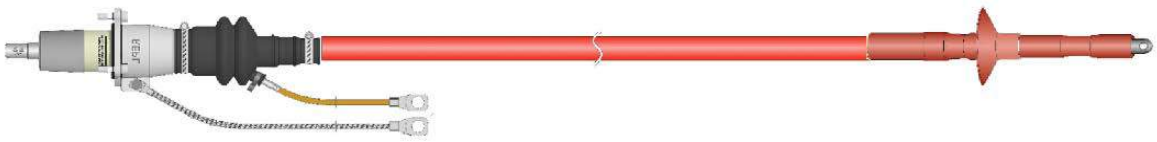
Termination Options:

A		Indoor Termination up to 24kV - Cable Lug Palm Hole =13mm
B		Indoor Termination up to 36kV - Cable Lug Palm Hole =13mm
C		Inner Cone - 250A - Size 0
D		Outer Cone - 250A - DeadBreak - Interface A
E		Outer Cone - 630A - DeadBreak - Interface C - up to 24kV
F		Outer Cone - 630A - DeadBreak - Interface C - up to 36kV
G		Indoor Termination up to 12kV - Cable Lug Palm Hole 13mm
H		Inner Cone - 630A - Size 1
I		Outer Cone Bushing T - 630A - DeadBreak - Interface C - up to 24kV

Cable Options:

U		Cable for Underground or Indoor application. Non UV - Resistant
V		Cable for Overhead or Outdoor application. UV- Resistant

Loop Code Designation:



Example of Product Code for the above loop = ***RCL-24-C-5-U-A-250***

Product Code Designation:

RCL - Z - X - L - P - Y – W

RCL = REPL Cable Loop
Z = U_{max} (Maximum Voltage System e.g.. 12kV or 24kV or 36kV)
X = Termination on the Left - reference letter from A to I
L = Cable Length excluding Terminations (e.g.. 3mts or 10mts……)
P = Type of Cable Application (e.g. U for underground or V for overhead)
Y = Termination on the Right – reference letter from A to I
W = I_{max} (Maximum Current through the loop i.e. 250A or 400A or 630A)

Part 2: Cable Joints & Enclosures

RHLJ (*Low Voltage Heat Shrink Cable Joints up to 3.3kV*)

RHLJ range of joints use REPL heat shrink tubes for insulation and outer protection.
Versions are available for flexible unarmoured and armoured cables in standard voltage ranges of 0.6/1kv and 1.9/3.3kV.
The kits normally do not include connectors.
A version for jointing paper cables to polymeric insulated cables is also available.

RHLAJ-1 – for 1core AWA cables up to 0.6/1kV

Product Code	Cable Range (mm^2)	Length (mm)
RHLAJ 50-95-1	50-95	500
RHLAJ 120-185-1	120-185	600
RHLAJ 240-300-1	240-300	650
RHLAJ 400-630-1	400-630	700

RHLUJ-1 – for 2/3/4 core unarmoured cables up to 0.6/1kV

Product Code	Cable Range (mm^2)	Length (mm)
RHLUJ 1.5-2.5-4	1.5 – 2.5	200
RHLUJ 4-6-4	4 – 6	250
RHLUJ 10-16-4	10-16	500
RHLUJ 25-50-4	25 -50	600
RHLUJ 70-120-4	70-120	600
RHLUJ 120-185-4	120-185	800
RHLUJ 240-400-4	240-400	1000

RHLAJ3X -1 – 1 core AWA cables up to 1.9/3.3kV

Product Code	Cable Range (mm^2)	Length (mm)
RHLAJ 3X 50-95-1	50-95	500
RHLAJ 3X 120-185-1	120-185	600
RHLAJ 3X 240-300-1	240-300	650
RHLAJ 3X 400-630-1	400-630	700

RHLAJ-4 – for 2/3/4core SWA cables up to 0.6/1kV

Product Code	Cable Range (mm^2)	Length (mm)
RHLAJ 1.5-2.5-4	1.5 – 2.5	300
RHLAJ 4-6-4	4 - 6	400
RHLAJ 10-16-4	10-16	550
RHLAJ 25-50-4	25-50	600
RHLAJ 70-95-4	70-95	700
RHLAJ 120-185-4	120-185	900
RHLAJ 240-400-4	240-400	1200

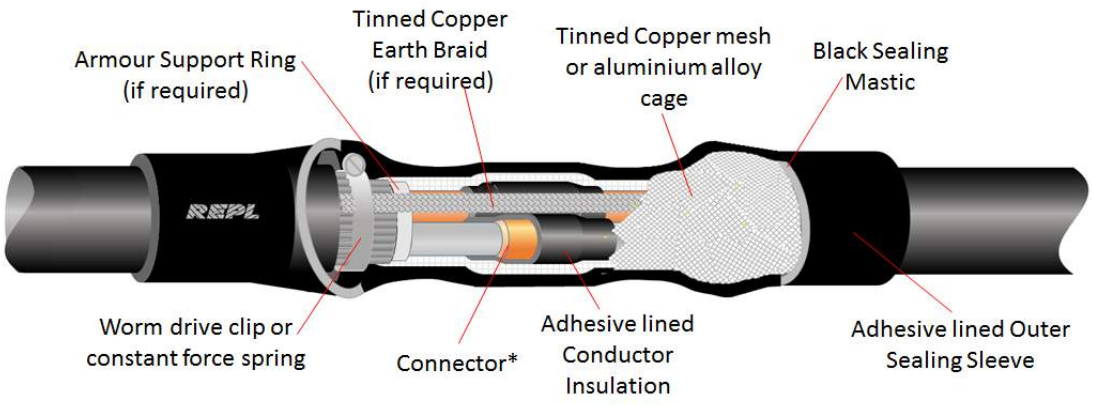
RHLTJ-4 – transition for 2/3/4 core SWA cables to PILC cables up to 0.6/1kV

Product Code	Cable Range (mm^2)	Length (mm)
RHLTJ 25-50-4	25-50	800
RHLTJ 70-95-4	70-95	900
RHLTJ 120-185-4	120-185	1100
RHLTJ 240-400-4	240-400	1400

RHLAJ3X-4 – for 3core SWA cables up to 1.9/3.3kV

Product Code	Cable Range (mm^2)	Length (mm)
RHLAJ3X 25-50-4	25-50	600
RHLAJ3X 70-95-4	70-95	700
RHLAJ3X 120-185-4	120-185	900
RHLAJ3X 240-400-4	240-400	1200

Typical Construction of Armoured Cable Joint



* Connectors not supplied in kit unless specified except 1.5-2.5sqmm kits which include crimp connectors

RHSJ-X (*Medium Voltage Heat Shrink Straight Joints for Polymeric Cables up to 42kV*)

RHSJ-P (*Medium Voltage Heat Shrink Straight Joints for Paper Cables up to 36kV*)

RHSJ-PX (*Medium Voltage Heat Shrink Straight Transition Joints up to 36kV*)

For jointing polymeric insulated cables up to 42kV

For jointing paper insulated cables up to 36kV

For jointing polymeric insulated to paper insulated cables up to 36kV

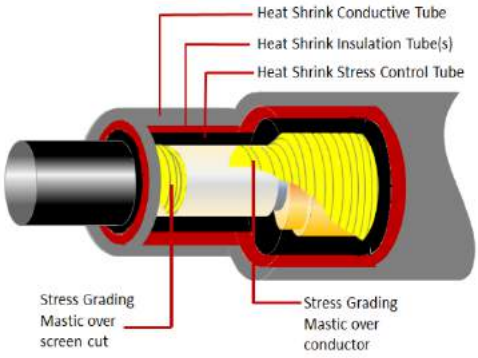
Kits can be supplied for single and three core cable designs with/without armouring

Standard joint with Heavy Wall Heat shrink outer sealing tube – resin encapsulated option also available

Suitable for mechanical or compression cable connectors

Trifurcating solution available for jointing 3 core to 3 x 1core cables available – see RHTJ range

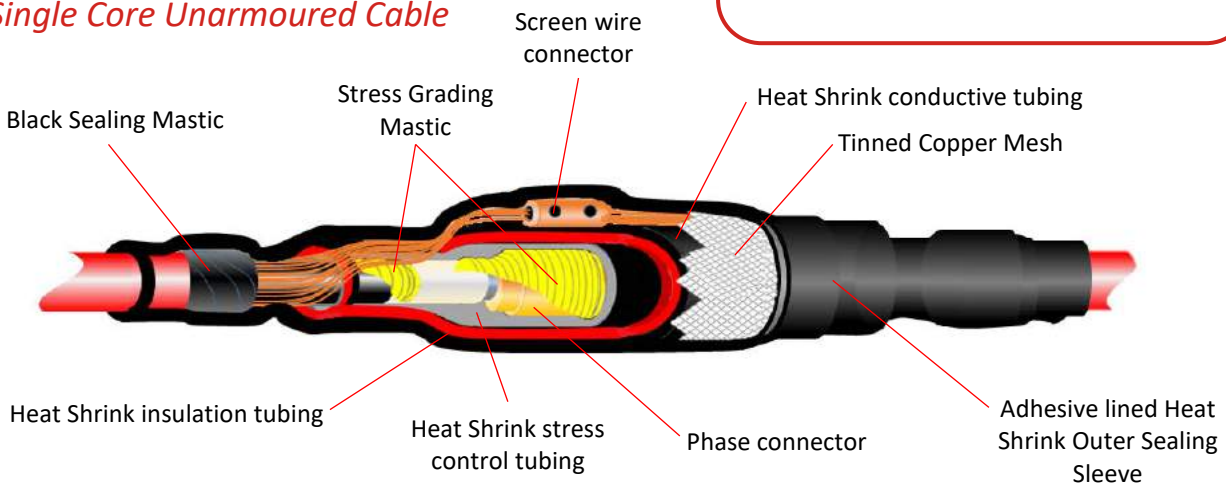
Fully tested to CENELEC HD 629 / IEC 60502-4



A 12kV Joint is depicted above which has a dual wall insulating/conductive tube above the stress control tube.
For 24kV to 36kV applications, further insulating tubes are added between the stress control tube and dual wall tubing.

Example Construction

Single Core Unarmoured Cable



KIT PRODUCT CODE SELECTOR

Typical Code: RHSJA-12X-95-185-3

Cable Construction	Voltage	Cable Type	Cable Size Range	No of Cores
U = Unarmoured Cable	7 = 7.2 kV	X = Polymeric Insulated cables	35 – 95	1 = 1 Core Cable
A = Armoured Cable	12 =11 kV	P = Paper insulated cables	95 – 185	3 = 3 core Cable
	17 = 17.5 kV	PX = Transition Joint between Polymeric and Paper cables	185 – 300	
	24 = 24 kV		300- 630	
	36 = 36 kV		630-1000	
	42 = 42 kV			

RHTJ – X (Medium Voltage Heat Shrink Trifurcating Cable Joints up to 36kV)

RHTJ – PX (Medium Voltage Heat Shrink Trifurcating Transition Cable Joints up to 36kV)

For jointing 3 core cables to 3 x single core cables up to 36kV (RHTJ – X)

For jointing 3 core paper cables to 3 x single core polymeric cables up to 36kV (RHTJ-PX)

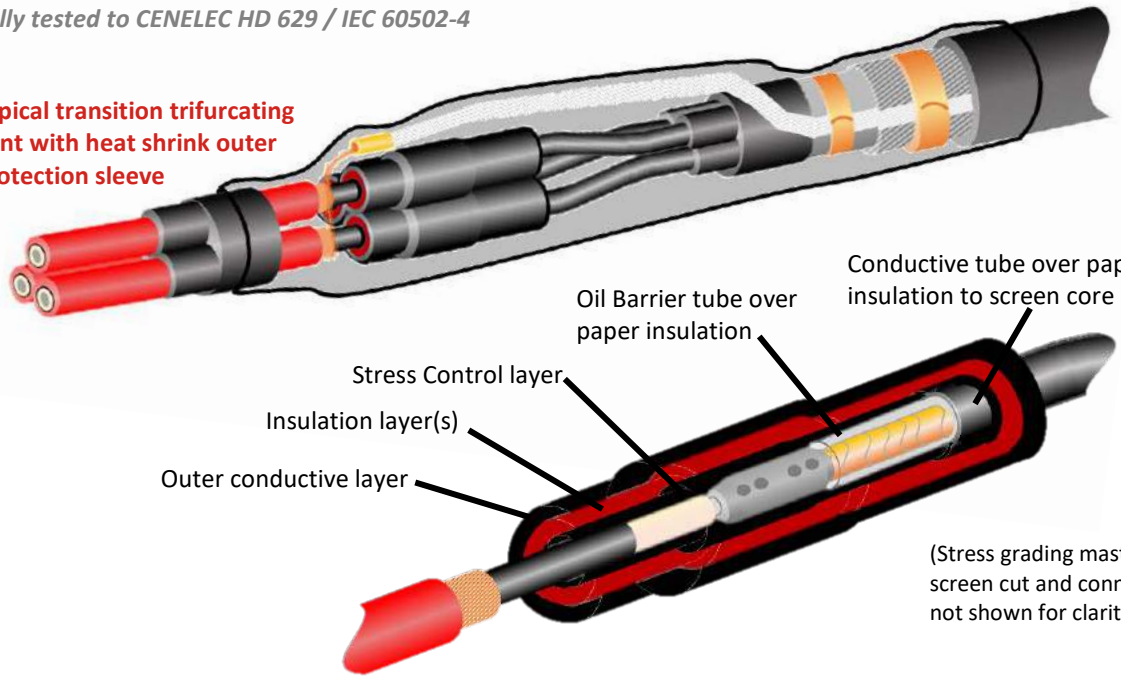
Kits can be supplied for single and three core cable designs with/without armouring

Standard joint with Heavy Wall Heat shrink outer sealing tube – resin encapsulated option also available

Suitable for mechanical or compression cable connectors

Fully tested to CENELEC HD 629 / IEC 60502-4

Typical transition trifurcating joint with heat shrink outer protection sleeve



Heat Shrink Insulation detail for transition joint arrangement

KIT PRODUCT CODE SELECTOR

Typical Code: RHTJU-12PX-95-185

Cable Construction	Voltage	Cable Type	Cable Size Range
U = Unarmoured Cable	7 = 7.2 kV	X = Polymeric Insulated cables both ends	35 – 95
A = Armoured Cable	12 =11 kV	PX = Transition Joint between Polymeric and Paper cables	95 – 185
	17 = 17.5 kV		185 – 300
	24 = 24 kV		300- 630
	36 = 36 kV		630-1000

RCSJ (Medium Voltage Cold Shrink Cable Joints for Polymeric Insulated Cables up to 36kV)

For jointing polymeric and paper insulated cables up to 36kV

Requires not heat or special tools for installation

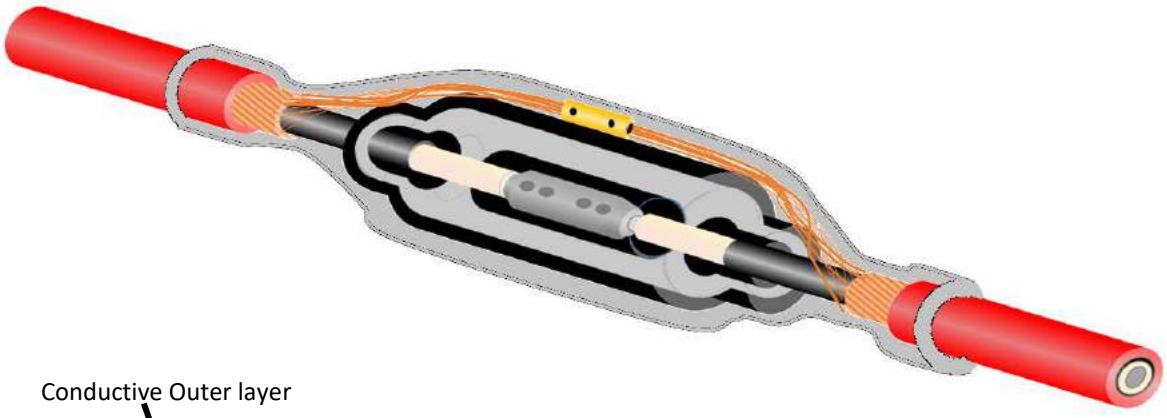
Kits can be supplied for single and three core cable designs with/without armouring

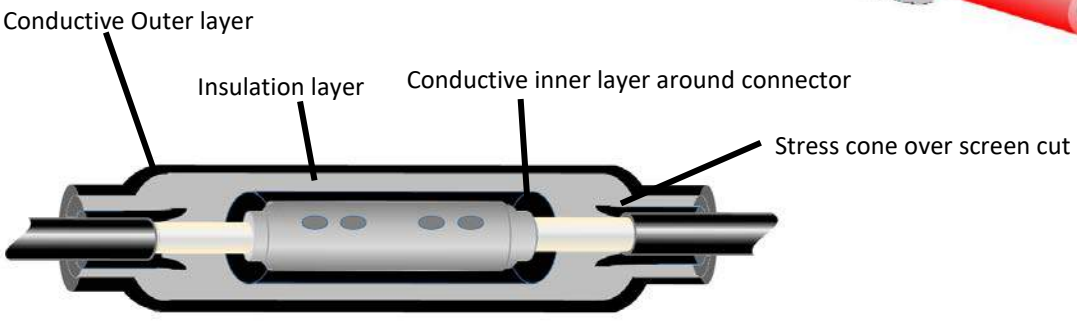
Kits can be supplied for single and three core cable designs with/without armouring

Suitable for mechanical or compression cable connectors

Available with cold shrink, heat shrink or resin encapsulated outer protection

Fully tested to CENELEC HD 629





Cold Shrink Joint Body detail

KIT PRODUCT CODE SELECTOR

Typical Code: RCSJA-12X-95-185-3

Cable Construction	Voltage	Cable Type	Cable Size Range	No of Cores
U = Unarmoured Cable	7 = 7.2 kV	X = Polymeric Insulated cables	35 – 95	1 = 1 Core Cable
A = Armoured Cable	12 =11 kV	P = Paper insulated cables	95 – 185	3 = 3 core Cable
	17 = 17.5 kV	PX = Transition Joint between Polymeric and Paper cables	185 – 300	
	24 = 24 kV		300- 630	
	36 = 36 kV		630-1000	
	42 = 42 kV			

RHCE-P (Enclosures for Pressurised Telecom Cable In-Line Joints)

For in-line joints on underground pressurised telecom cable networks

Suitable for aerial, buried and ducted applications on polyethylene and metal jacketed cables

Excellent mechanical and environmental protection of joints in the pressurised access network

Suitable for use with all standard connector systems

Metal canister protects the splice bundle

Wraparound closure for both maintenance and new construction applications

Water proof rating: IP68

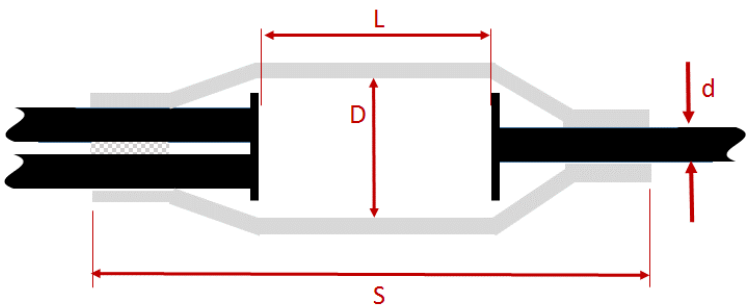
Interchangeable pre-installed valve for pressure access and measuring

Branch kits available

Capacity: Multiple capacities offered – see table for splice bundle dimensions

RHCE-P - Pressurised Cable Enclosure

Kit Number	Splice Bundle diameter (D)	Cable Diameter (d)	Maximum Joint Gap (L)	Sleeve Length (S)	Maximum Diameter of Branch Cables mm		
	mm	mm	mm	mm	2 Out	3 Out	4 Out
RHCE-P-62/15-350	62	15	350	670	52	40	N/A
RHCE-P-62/15-500	62	15	500	850	52	40	N/A
RHCE-P-92/30-650	62	15	650	1000	52	40	N/A
RHCE-P-92/30-350	92	30	350	690	82	70	58
RHCE-P-92/30-500	92	30	500	850	82	70	58
RHCE-P-92/30-650	92	30	650	1000	82	70	58
RHCE-P-122/38-500	122	38	500	800	112	100	88
RHCE-P-122/38-650	122	38	650	1020	112	100	88
RHCE-P-160/55-300	160	55	300	790	142	100	118
RHCE-P-160/55-500	160	55	500	970	142	130	118
RHCE-P-160/55-720	160	55	720	1150	142	130	118
RHCE-P-160/55-900	160	55	900	1380	142	130	118
RHCE-P-200/65-720	200	65	720	1150	172	160	148
RHCE-P-200/65-900	200	65	900	1380	172	160	148



RHCE-NP (Enclosures for Non-Pressurised Telecom Cable In-Line Joints)

For in-line joints on underground non - pressurised telecom cable networks

Suitable for aerial, buried and ducted applications with cables unfilled or jelly filled, with polyethylene, lead, steel or aluminium sheaths.

Excellent mechanical and environmental protection of joints in the pressurised access network

Suitable for use with all standard connector systems

Metal canister protects the splice bundle

Wraparound closure for both maintenance and new construction applications

Water proof rating: IP68

Interchangeable pre-installed valve for pressure access and measuring

Branch kits available

Capacity: Multiple capacities offered – up to 3600pairs – see table for splice bundle dimensions

RHCE-NP - Non - Pressurised Cable Enclosure				
Kit Number	Splice Bundle diameter (D)	Cable Diameter (d)	Maximum Joint Gap (L)	Sleeve Length (S)
	mm	mm	mm	mm
RHCE-NP-43/8-240	43	8	240	445
RHCE-NP-43/8-350	43	8	350	600
RHCE-NP-43/8-500	43	8	500	755
RHCE-NP-75/15-250	75	15	250	505
RHCE-NP-75/15-500	75	15	500	710
RHCE-NP-92/30-650	75	15	600	860
RHCE-NP-92/25-300	92	25	300	665
RHCE-NP-92/25-500	92	25	500	830
RHCE-NP-92/25-600	92	25	600	985
RHCE-NP-122/30-500	122	30	300	680
RHCE-NP-122/30-500	122	30	500	860
RHCE-NP-122/30-650	122	30	650	1010
RHCE-NP-160/42-500	160	42	500	920
RHCE-NP-160/42-720	160	42	720	1100
RHCE-NP-200/50-500	200	50	500	940
RHCE-NP-200/50-720	200	50	720	1120

Part 3: Heat Shrink Tubing, Tapes and Sleeving

RITTU / RITTA

(*Thin Wall, heat shrinkable tubing*)

A Range of Thin Wall, heat shrinkable tubing for use in general lightweight protection, harnessing and colour identification applications.

RITT (U/A) Thin Wall Insulating Tubing			
Product Code	**Adhesive Lined**	**Shrink Ratio**	**Diameter Range (mm)**
RITTU 2:1	No	2:1	1 – 127
RITTU 3:1	No	3:1	1 – 39
RITTA 3:1	Yes	3:1	1 – 39
RITTA 4:1	Yes	4:1	1 -52

Standard Colour: Black

Also available: Clear, Green, Brown, Yellow/Green, Blue, and Grey.

Please consult REPL sales office for details on sizes available

RIMTU / RIMTA

(*Medium Wall, heat shrinkable tubing*)

Heat Shrinkable Medium Wall Tubes to provide environmental protection to the cable cores of plastic and paper insulated cable terminations, and insulation over the connector area in cable joints rated up to 1kV. The insulating tubes are made from thermally stabilized, cross linked, weather resistant polymeric material. The tubes can be supplied internally coated with hot melt adhesive (RIMTA).

Standard Colour: Black

RIMT (U/A) Medium Wall Insulating Tubing			
Product Code	**Diameter**		**Thickness**
	Expanded mm	Recovered mm	mm
RIMT (U)/(A) 9/3	9	3	1.9
RIMT (U)/(A) 12/4	12	4	2.2
RIMT (U)/(A) 16/5	16	5	2.3
RIMT (U)/(A) 22/6	22	6	2.5
RIMT (U)/(A) 30/8	30	8	2.6
RIMT (U)/(A) 40/12	40	12	2.8
RIMT (U)/(A) 52/16	52	16	3.0
RIMT (U)/(A) 63/19	63	19	3.2
RIMT (U)/(A) 75/22	75	22	3.2
RIMT (U)/(A) 80/22	80	22	3.2
RIMT (U)/(A) 100/30	100	30	3.3
RIMT (U)/(A) 120/34	120	34	3.3
RIMT (U)/(A) 140/37	140	37	3.4
RIMT (U)/(A) 160/50	160	50	3.6
RIMT (U)/(A) 180/60	180	60	3.6

RIHTU / RIHTA

(*Heavy Wall, heat shrinkable tubing*)

Heat Shrinkable Heavy Wall Tubes (RIHT) are used for environmental sealing of plastic and paper insulated cable joints rated up to 36kV.These tubes are made from thermally stabilized, cross linked, UV and weather resistant polymeric material and have a nominal shrink ratio of 3:1 and an unlimited shelf life when stored at normal warehouse temperatures. The tubes can be supplied internally coated with hot melt adhesive (RIHTA).

Standard Colour: Black

RIHT (U/A) Heavy Wall Insulating Tubing			
Product Code	**Diameter**		**Thickness**
	Expanded mm	Recovered mm	mm
RIHT (U)/(A) 12/4	12	4	2.5
RIHT (U)/(A) 20/6	20	6	2.8
RIHT (U)/(A) 30/8	30	8	3.2
RIHT (U)/(A) 33/10	33	10	3.2
RIHT (U)/(A) 40/12	40	12	4.0
RIHT (U)/(A) 55/16	55	16	4.1
RIHT (U)/(A) 65/19	65	19	4.2
RIHT (U)/(A) 80/22	80	22	4.4
RIHT (U)/(A) 100/30	100	30	4.4
RIHT (U)/(A) 120/34	120	34	4.4
RIHT (U)/(A) 140/37	140	37	4.5
RIHT (U)/(A) 160/50	160	50	4.5
RIHT (U)/(A) 180/60	180	60	4.5

RIBT / RIBT-T (*Busbar Insulation Heat Shrinkable Tubing*)

Heat Shrinkable Busbar Insulating Tubing are used to insulate copper and aluminium busbars, preventing flashovers and accidentally induced discharge.

RIBT (Medium Wall Busbar Insulating Tubing)

Product Code	Diameter		Thickness	Standard Lengths
	Expanded mm	Recovered mm	mm	m
RIBT 15/6	15	6	2.5	30
RIBT 20/8	20	8	2.5	30
RIBT 25/10	25	10	2.5	30
RIBT 30/12	30	12	2.5	30
RIBT 40/16	40	16	2.5	30
RIBT 50/20	50	20	2.8	15
RIBT 60/24	60	24	2.8	15
RIBT 70/28	70	28	2.8	15
RIBT 80/32	80	32	2.8	15
RIBT 100/40	100	40	2.8	15
RIBT 120/48	120	48	2.8	15

RIBT-T (Heavy Wall Insulating Tubing)

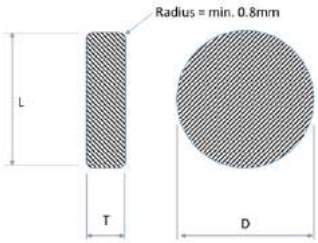
Product Code	Diameter		Thickness	Standard Lengths
	Expanded mm	Recovered mm	mm	m
RIBT-T 15/6	15	6	4.0	30
RIBT-T 20/8	20	8	4.0	30
RIBT-T 25/10	25	10	4.0	30
RIBT-T 30/12	30	12	4.0	30
RIBT-T 40/16	40	16	4.0	30
RIBT-T 50/20	50	20	4.0	15
RIBT-T 60/24	60	24	4.0	15
RIBT-T 70/28	70	28	4.0	15
RIBT-T 80/32	80	32	4.0	15
RIBT-T 100/40	100	40	4.0	15
RIBT-T 120/48	120	48	4.0	15

RTBM (*Busbar Insulation Heat Shrinkable Tape*)

Busbar Insulating Tape (RBTM) is a dual layer tape combining a heat shrinkable outer tape with excellent insulating and weathering properties with an inner hot melt adhesive, to provide moisture sealing. It is used to provide insulation enhancement and protection for copper or aluminium busbar sections where tube products cannot easily be applied. A single layer of RBTR applied at ⅔ overlap will provide AC withstand up to 17.5kV. Double layers will increase withstand level up to 36kV.

RBTM

Product Code	Width	Thickness	Standard Lengths	Application Range	
	mm	mm	m	D (min) mm	L + T (min) mm
RBTM – 25	25	1.0	5 / 10	8	10
RBTM – 50	50	1.0	5 / 10	30	40
RBTM - 100	100	1.0	5 / 10	70	110

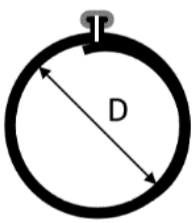


RWRS/RTSF (*Wraparound Heat Shrinkable Repair Sleeves*)

RWRS Heat Shrinkable Wrap-Around Sleeves are mainly used for repairing outer/inner sheath of cables. The Wrap-Around Sleeves are made from thermally stabilised, cross linked, weather resistant, polymeric material and is halogen free. The Sleeves are coated internally with hot melt adhesive.

RTSF Reinforced Heat Shrink Splice Closure System is designed to provide excellent split resistance, environmental and mechanical protection for 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 outer surface of the sleeves have thermos-chromatic paint.



RTSF (Reinforced Wraparound Repair sleeve)

Product Code	Standard Lengths	Application Range
	m	D mm
RTSF 42/08	1.0 / 1.5	12-25
RTSF 75/15	1.0 / 1.5	20-50
RTSF 92/25	1.0 / 1.5	30-60
RTSF 122/30	1.0 / 1.5	40-80
RTSF 160/42	1.0 / 1.5	60-100
RTSF 200/50	1.0 / 1.5	70-140

RWRS (Wraparound Repair sleeve)

Product Code	Standard Lengths	Application Range
	m	D mm
RWRS 43/08	1.0 / 1.5	12-25
RWRS 52/10	1.0 / 1.5	15-35
RWRS 82/22	1.0 / 1.5	20-50
RWRS 100/30	1.0 / 1.5	30-70
RWRS 139/38	1.0 / 1.5	40-90
RWRS 185/55	1.0 / 1.5	60-120
RWRS 210/55	1.0 / 1.5	80-150

Part 4: Heat Shrink / Cold shrink Moulded Components

EC / CEC
(*Heat Shrink Cable End Caps*)

EC Heat Shrinkable End Caps are used to provide a moisture tight seal on all types of cables. The caps are lined with a hot melt adhesive to provide a moisture seal. The end cap is made from thermally stabilised, cross linked polymer and are suitable for use in temperatures between -30^{0}C and +70^{0}C, and with internal pressures up to 0.05MPa. Other versions are available with conductive material (CEC series) or fitted with valves (ECV series) for pressurised cable applications

EC Heat Shrink Cable End Caps

Product Code	Diameter Range (mm)
EC 8/3-25	3-7
EC 12/3-38	3-11
EC 14/4-40	5-13
EC 16/6-45	7-14
EC 20/8-45	9-18
EC 24/8-65	9-22
EC 26/11-45	12-23
EC 35/15-105	17-32
EC 42/15-165	17-38
EC 55/25-150	28-50
EC 62/25-165	28-56
EC 75/26-160	29-68
EC 75/34-190	37-68
EC 105/45-105	50-95
EC 120/59-110	65-108
EC 145/71-120	78-131
EC 160/76-155	87-144
EC 200/90-160	99-180
EC 230/125-220	140-200
EC 310/120-220	280-140
EC 400/204-220	230-380
EC 500/200-220	230-480

The table shows REPL standard range of end caps for general applications.
A wider range of diameters/lengths and other options for colour and printing are available upon request.

CSEC
(*Cold Shrink Cable End Caps*)

Cold Shrink End Caps are a convenient method to provide a moisture seal on all types of cable or conduits without the use of a heat source or special tools.
The caps give a robust and permanent seal against moisture and other chemicals, UV and Ozone.

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 rubber end cap to shrink down to its original memory.

CSEC Cold Shrink Cable End Caps

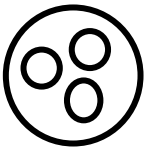
Product Code	Diameter Range (mm)
CSEC 20/12	12 - 19
CSEC 28/16	16 - 25
CSEC 47/23	23 - 45
CSEC 80/46	46 - 75

EB
(*Heat Shrink Low Voltage Cable Breakouts*)

Heat Shrinkable Cable Breakouts provide an environmental seal to the crutch of plastic and paper insulated cables, rated up to 1.1kV. The Breakout is made from thermally stabilised, cross linked, polymeric material.
The Breakouts are internally coated with hot melt adhesive.

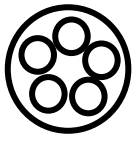
2 core

3 core

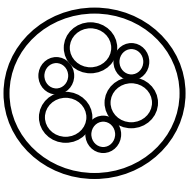


4 core

5 core



6 core



EB2 Low Voltage 2 core Cable Breakouts

Product Code	Application Range	Diameter of Cable entry		Diameter of fingers	
	(mm^2)	Expanded mm	Recovered mm	Expanded mm	Recovered mm
EB2 -30-10	4 – 25	30	10	12	3
EB2-50-24	35 – 150	50	24	21	7
EB2-60-20	185 – 300	84	20	45	18
EB2-90-45	>300	90	45	43	15
EB2-115-40	>300	115	40	53	15

EB3 Low Voltage 3 core Cable Breakouts

Product Code	Application Range	Diameter of Cable entry		Diameter of fingers	
	(mm^2)	Expanded mm	Recovered mm	Expanded mm	Recovered Mm
EB3-28-09	4 -25	28	9	9	3
EB3-35-15	10 -35	35	15	13	4
EB3-55-23	35 – 120	55	23	25	8
EB3-75-23	150 – 240	75	28	35	13
EB3-115-30	185 – 400	115	30	53	13
EB3-110-35	>400	110	35	50	17
EB3-140-46	>400	140	45	70	21
EB3-125-59	>400	120	56	50	17
EB3-170-56	>400	178	55	81	27

EB4 Low Voltage 4 core Cable Breakouts

Product Code	Application Range	Diameter of Cable entry		Diameter of fingers	
	(mm^2)	Expanded mm	Recovered mm	Expanded mm	Recovered mm
EB4-28-09	25 – 50	28	9	8	2
EB4-35-15	35 – 70	35	15	13	4
EB4-47-23	70 – 120	47	23	20	8
EB4-60-25	70 – 150	60	25	25	8
EB4-78-36	120 – 150	78	36	30	12
EB4-95-36	185 – 300	95	36	35	14
EB4-117-36	400	117	36	46	14

EB5 Low Voltage 5 core Cable Breakouts

Product Code	Application Range	Diameter of Cable entry		Diameter of fingers	
	(mm^2)	Expanded mm	Recovered Mm	Expanded mm	Recovered mm
EB5-35-15	25 – 50	35	15	20	4
EB5-50-15	35 – 70	50	15	15	4
EB5-65-21	70 – 120	65	21	20	8
EB5-70-15	70 – 150	70	15	20	20

EB6 Low Voltage 6 core Cable Breakouts

Product Code	Diameter of Cable entry		Diameter of larger fingers		Diameter of smaller fingers	
	Expanded mm	Recovered Mm	Expanded mm	Recovered mm	Expanded mm	Recovered mm
EB6-115-54	115	54	54	20	31	13

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