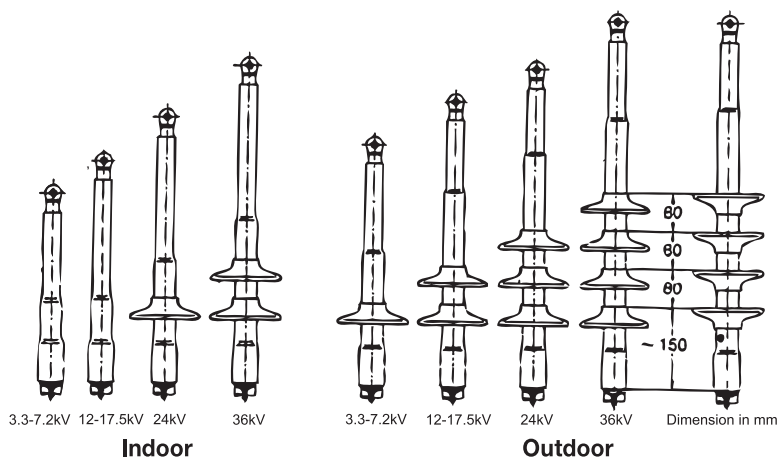


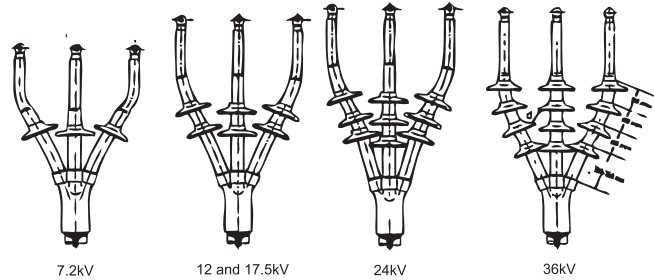
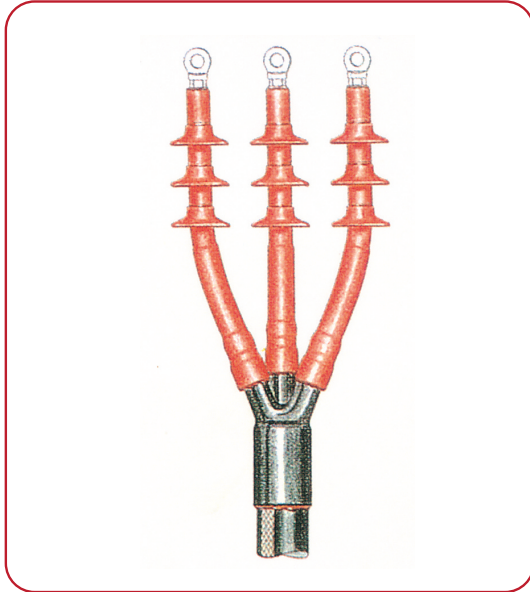
APKT TERMINATION FOR SCREENED SINGLE CORE PLASTIC AND RUBBER INSULATED CABLES



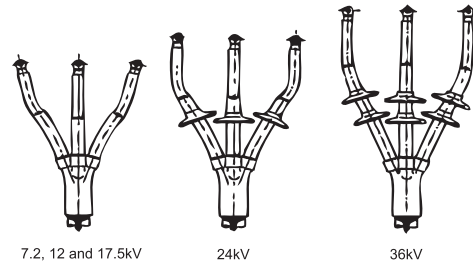
Indoor and Outdoor Termination for Screened Cables for 3.3kV to 36 kV without Armour

Voltage kV.	Size sq.mm.	3 single core per Kit indoor			3 single core per Kit outdoor		
		Type	Cat. No.	Price / ราคา	Type	Cat. No.	Price / ราคา
3.3-7.2	16-50	APKT	7A1XI	4,500.00	APKT	7A1XO	9,950.00
	70-120	APKT	7B1XI	4,650.00	APKT	7B1XO	10,800.00
	150-240	APKT	7C1XI	4,950.00	APKT	7C1XO	12,300.00
	300-500	APKT	7D1XI	5,900.00	APKT	7D1XO	14,300.00
	630-1000	APKT	7E1XI	6,400.00	APKT	7E1XO	18,000.00
12-17.5	16-35	APKT	17A1XI	4,800.00	APKT	17A1XO	10,800.00
	50-70	APKT	17B1XI	5,000.00	APKT	17B1XO	11,700.00
	95-240	APKT	17C1XI	5,400.00	APKT	17C1XO	13,300.00
	300-400	APKT	17D1XI	6,200.00	APKT	17D1XO	17,000.00
	500-800	APKT	17E1XI	9,000.00	APKT	17E1XO	22,300.00
	1000	APKT	17F1XI	11,800.00	APKT	17F1XO	27,300.00
24	16-35	APKT	24A1XI	5,000.00	APKT	24A1XO	12,600.00
	50-70	APKT	24B1XI	5,350.00	APKT	24B1XO	13,200.00
	95-185	APKT	24C1XI	5,800.00	APKT	24C1XO	13,800.00
	240-400	APKT	24D1XI	6,600.00	APKT	24D1XO	17,500.00
	500-630	APKT	24E1XI	9,200.00	APKT	24E1XO	21,800.00
	800-1000	APKT	24F1XI	16,600.00	APKT	24F1XO	29,200.00
36	35	APKT	36B1XI	10,500.00	APKT	36B1XO	25,200.00
	50-120	APKT	36C1XI	12,500.00	APKT	36C1XO	27,000.00
	150-185	APKT	36D1XI	13,400.00	APKT	36D1XO	30,200.00
	240-500	APKT	36E1XI	15,200.00	APKT	36E1XO	32,100.00
	630-1000	APKT	36F1XI	22,300.00	APKT	36F1XO	39,900.00

APKT TERMINATION FOR SCREENED SINGLE CORE PLASTIC AND RUBBER INSULATED CABLES



Outdoor

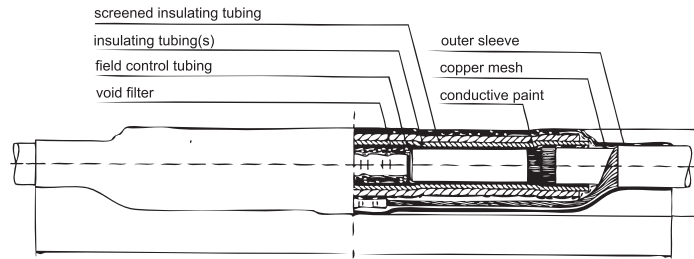
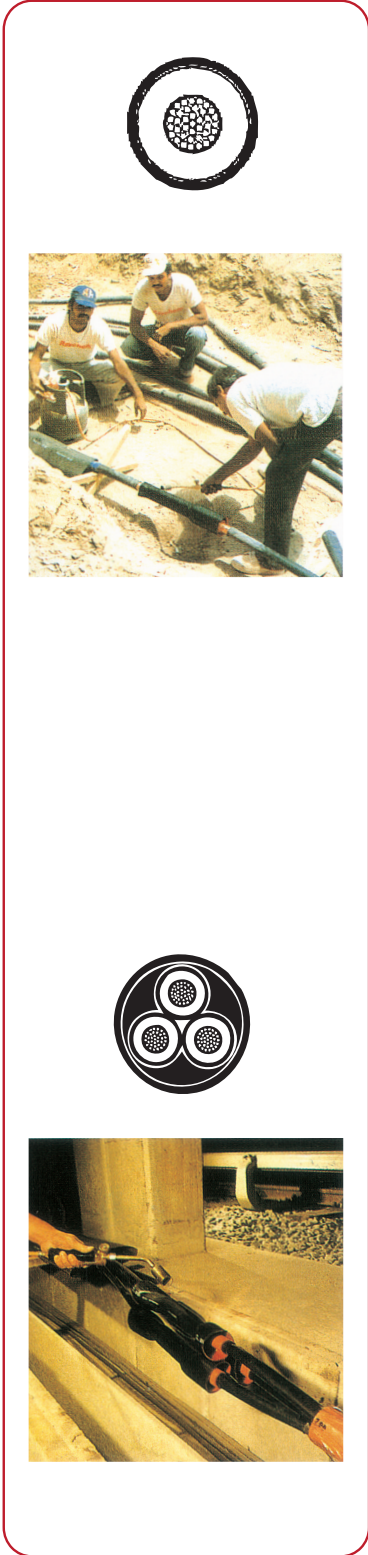


Indoor

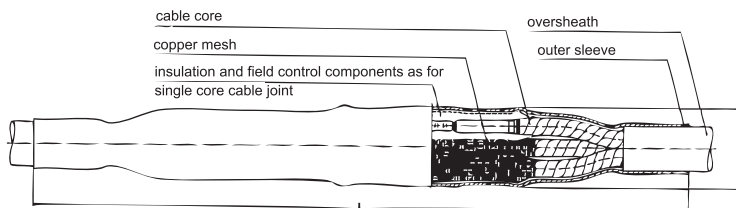
Indoor and Outdoor Termination for Screened Cables for 3.3kV to 36 kV without Armour

Voltage kV.	Size sq.mm.	Length of HVTM tubing for cores 3x650 mm. Indoor			Length of HVTM tubing for cores 3.3, 12, 17.5 kV (3x650 mm.) Outdoor		
		Type	Cat. No.	Price / ราคา	Type	Cat. No.	Price / ราคา
3.3 - 7.2	16-50	APKT	7A3XI-H2	5,450.00	APKT	7A3XO-H2	11,400.00
	70-120	APKT	7B3XI-H2	5,850.00	APKT	7B3XO-H2	11,800.00
	150-240	APKT	7C3XI-H2	6,800.00	APKT	7C3XO-H2	13,650.00
	300-500	APKT	7D3XI-H2	8,200.00	APKT	7D3XO-H2	15,700.00
12-17.5	16-35	APKT	17A3XI-H2	6,800.00	APKT	17A3XO-H2	15,200.00
	50-70	APKT	17B3XI-H2	7,400.00	APKT	17B3XO-H2	16,000.00
	95-240	APKT	17C3XI-H2	8,600.00	APKT	17C3XO-H2	18,300.00
	300-400	APKT	17D3XI-H2	9,700.00	APKT	17D3XO-H2	21,000.00
24	25-35	APKT	24A3XI-H2	8,050.00	APKT	24A3XO-H3	23,000.00
	50-70	APKT	24B3XI-H2	10,200.00	APKT	24B3XO-H3	24,000.00
	95-185	APKT	24C3XI-H2	11,800.00	APKT	24C3XO-H3	28,000.00
	240-400	APKT	24D3XI-H2	14,000.00	APKT	24D3XO-H3	33,000.00
36	35	APKT	36B3XI-H2	14,700.00	APKT	36B3XO-H3	30,500.00
	50-120	APKT	36C3XI-H2	17,900.00	APKT	36C3XO-H3	36,000.00
	150-185	APKT	36D3XI-H2	19,800.00	APKT	36D3XO-H3	38,300.00
	240-500	APKT	36E3XI-H2	21,700.00	APKT	36E3XO-H3	42,000.00

EPKJ JOINT FOR SCREENED SINGLE & 3-CORE PLASTIC AND RUBBER INSULATED CABLES JOINT FOR 3.3kV to 36kV WITHOUT ARMOUR



Voltage kV	Size sq.mm.	Single core		Price ราคา
		Type	Cat. No.	
3.3-6.6	25-50	EPKJ	3250	7,750.00
	70-120	EPKJ	3251	8,550.00
	150-185	EPKJ	3252	9,800.00
	240-300	EPKJ	3253	11,300.00
	400-500	EPKJ	3254	14,700.00
12	16-25	EPKJ	3250	7,750.00
	35-70	EPKJ	3251	8,550.00
	95-150	EPKJ	3252	9,800.00
	185-300	EPKJ	3253	11,300.00
	400-500	EPKJ	3254	14,700.00
24	25-50	EPKJ	5256	12,600.00
	70-150	EPKJ	5257	16,100.00
	185-240	EPKJ	5258	18,100.00
	300-400	EPKJ	5259	19,600.00
36	50-70	EPKJ	6256	17,600.00
	95-150	EPKJ	6257	21,400.00
	185-400	EPKJ	6258	28,400.00



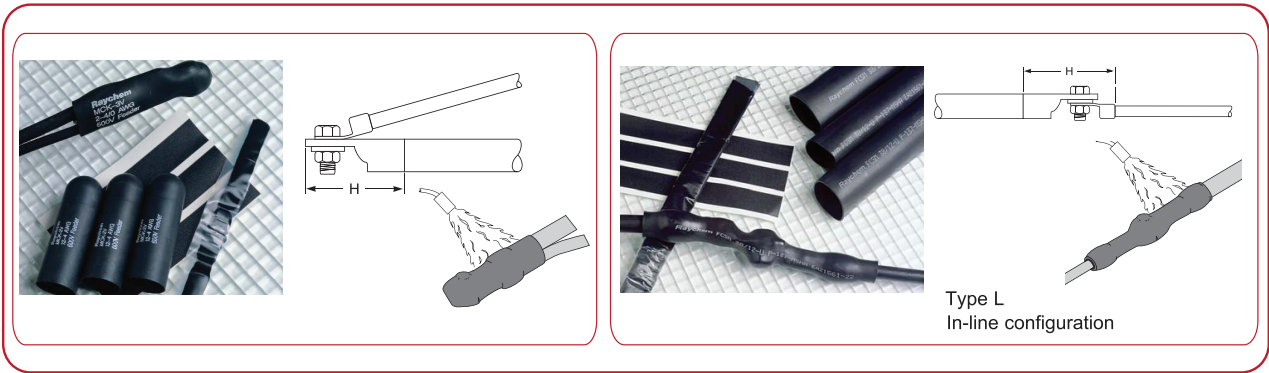
Voltage kV	Size sq.mm.	3-Core		Price ราคา
		Type	Cat. No.	
3.3-6.6	25-50	EPKJ	3240	13,200.00
	70-120	EPKJ	3241	16,300.00
	150-185	EPKJ	3242	19,800.00
	240-300	EPKJ	3243	22,600.00
12	16-35	EPKJ	3240	13,200.00
	50-95	EPKJ	3241	16,300.00
	120-185	EPKJ	3242	19,800.00
	240-300	EPKJ	3243	22,600.00
24	185-240	EPKJ	5267	49,000.00
	300	EPKJ	5268	53,600.00

**Armour Earthing Assembly
For Cable 7.2-36 kV with Wire Armour**

The armour wires of paper or plastic cables can be terminated to earth using mechanical clamping rings.



Cat. No. EAKT-	Description	For Cable O.D. mm.	Price บาท
1642	Armour Earthing	40-67	8,900.00
1643	Armour Earthing	50-86	11,000.00
1644	Armour Earthing	60-94	14,300.00
1645	Armour Earthing	70-110	16,600.00



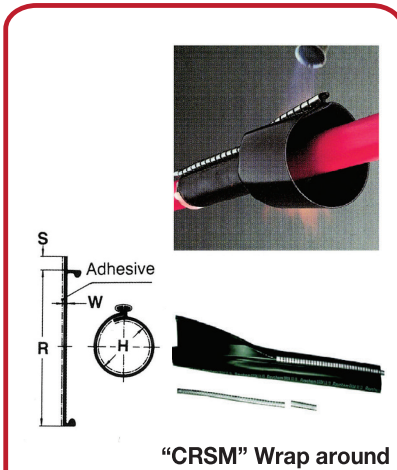
High and low voltage motor connection kit

Cat No.	Type V kV.	Motor feeder size	Maximum allowable bolt length inch	Maximum lug length inch	Nominal cap length inch open barrel	Price
MCK-1V	0.6-2	#14 - #10AWG	5/8	2	2½	950.00
MCK-2V	0.6-2	#12 - #4AWG	3/4	2½	3½	1,570.00
MCK-3V	0.6-2	#2 - #4/0AWG	1	3½	4½	2,300.00
MCK-4V	0.6-2	250-500 MCM	2½	5½	6½	3,970.00
MCK-5-1V-00	5-8	#8 - #2AWG	-	5	7½	8,400.00
MCK-5-2V-00	5-8	#1 AWG - 250 MCM	-	6	8½	10,500.00
MCK-5-3V-00	5-8	300 MCM-750 MCM	-	7	9½	12,550.00

Cat No.	Type L kV.	Motor feeder size	Maximum allowable bolt length inch	Maximum lug length inch	Nominal cap length inch open barrel	Price
MCK-1L	0.6-2	#8-4/0AWG	1¼	5	9	2,275.00
MCK-2L	0.6-2	250-1000MCM	1½	8	12	3,400.00
MCK-5-1L-00	5-8	#8AWG-250MCM	-	6	12	10,300.00
MCK-5-2L-00	5-8	300MCM-1000MCM	-	7	14	12,100.00

CABLE BREAKOUTS, “CRSM” WRAP AROUND HVBT HEAT SHRINKABLE BUSBAR TAPE AND ROLL SPRING

“CRSM” Wrap around

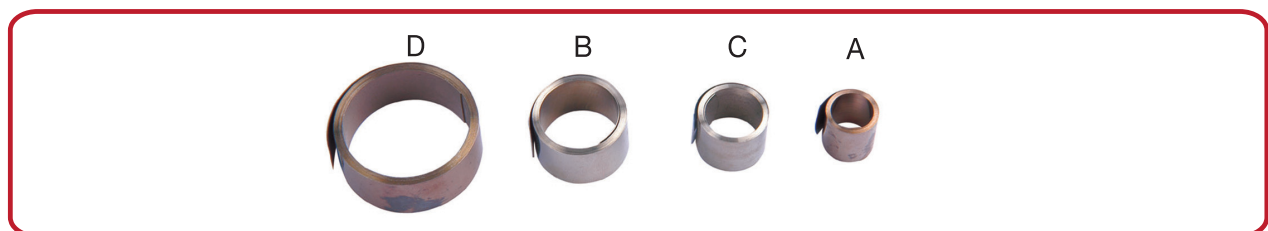


Cat. No. CRSM-	Application Range		Dimensions						Cut Length Price/m. ราคา / เมตร
	Diameter		H		R		W		
	from mm.	to mm.	a min	b max	a min	b max	a min	b max	
34/10	11	21	35	9	110	35	0.30	2.4	5,000.00
53/13	17	32	54	15	170	49	0.30	2.0	5,500.00
84/20	24	50	86	21	270	69	0.30	2.0	6,000.00
107/29	31	65	108	27	340	90	0.30	2.0	7,000.00
143/36	33	86	144	28	455	119	0.30	1.8	8,000.00
198/55	55	120	203	50	640	172	0.30	2.1	10,500.00
250/98	103	150	257	91	810	314	0.40	1.7	11,500.00

HVBT Heat Shrinkable Busbar Tape



Cat. No.	width inch(mm.)	Length Per Roll(M)	Price ราคา
HVBT-12-A	1(25)	10	8,200.00
HVBT-14-A	2(50)		10,700.00
HVBT-15-A	3(75)		14,600.00
HVBT-16-A	4(100)		19,100.00



EPPA 034 is a roll spring

The roll spring is used to attach shielding braid to tape shield of a plastic cable when termination or jointing.

The larger sizes are used for attaching earth braid to lead sheathed cable.

The roll spring is normally used as an integral part of Raychem joints and terminations.

Material: Fatigue resistant stainless steel.

BPTM HEAT-SHRINKABLE INSULATION TUBING
5 to 25kV APPLICATION PER ANSI C37.20C



BPTM Heat-shrinkable Insulation Tubing 5 to 25 kV Applications per ANSI C37.20C
BPTM Selection and Ordering Guide

Cat. No.	Inside diameter (mm)		Wall thickness (mm)		Spool length (M.)	Price / Metre
	H*	h	W	w		
	min	max	nom.	min		
BPTM 15/6-A/U	15	6	1.1	1.90	30.00	1,350.00
BPTM 30/12-A/U	30	12	1.1	2.20	30.00	1,700.00
BPTM 50/20-A/U	50	20	1.1	2.35	30.00	1,900.00
BPTM 75/30-A/U	70	30	1.1	2.35	20.00	2,200.00
BPTM 100/40-A/U	100	40	1.1	2.35	25.00	3,100.00
BPTM 120/50-A/U	120	50	1.3	2.80	25.00	4,300.00
BPTM 175/70-A/U	175	70	1.3	2.80	15.00	8,800.00
BPTM 205/110-A/U	205	110	1.3	2.80	10.00	16,500.00
BPTM 235/130-A/U	235	130	1.5	3.10	20.00	โปรดสอบถาม

WCSM heat-shrinkable heavy-wall tubing for insulating and sealing power cables and accessories. In this tubing, the electrical and physical properties of a cable overshath material are combined with ruggedness and easy installation. The material used is halogen-free and UV-resistant/



WCSM

Dimensions in millimeters
a = as supplied, b = after free recovery

Cat. No. WCSM	Application Range		Dimensions				Cut Length Price/m. ราคา / เมตร
	Diameter		H		W		
	from mm.	to mm.	a min	b max	a min	b max	
12/3	3.5	10.0	12	3	0.8	2.0	1,730.00
16/4	4.5	14.0	16	4	0.9	2.4	1,930.00
24/6	6.5	22.0	24	6	1.0	2.7	2,080.00
34/8	9.0	31.0	33	8	1.3	4.0	2,200.00
48/12	13.0	44.0	48	12	1.5	4.5	2,530.00
56/16	17.5	50.0	56	16	1.5	4.4	2,930.00
70/20	22.0	63.0	70	20	1.0	4.4	3,200.00
90/25	27.5	81.0	90	25	1.3	4.3	3,660.00
110/30	33.0	100.0	110	30	1.3	4.3	3,860.00
130/35	38.0	117.0	130	35	1.0	4.3	4,930.00
160/50	55.0	144.0	160	50	1.0	4.3	6,400.00
180/50	55.0	162.0	180	50	1.0	4.3	7,300.00
200/50	55.0	180.0	200	50	n.a.	4.3	โปรดสอบถาม
250/65	70.0	225.0	250	65	n.a.	4.3	
320/95	105.0	295.0	320	95	n.a.	4.3	
390/110	125.0	350.0	390	110	n.a.	4.3	

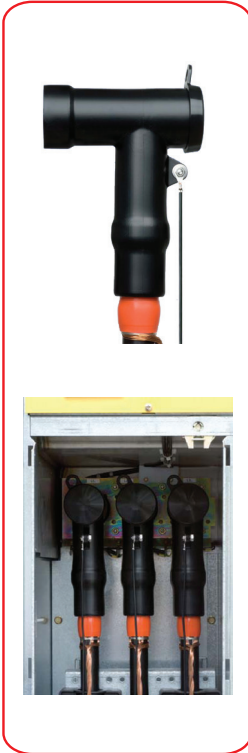
RAYCHEM SCREEN SEPARABLE & RAYCHEM SCREENED SEPARABLE COUPLING

B

RSTI-58

Raychem screened, separable connection system 800A up to 24kV

Screened separable connection system with DIN compression lugs



12kV				24kV			
Cross section (sq.mm.)	Diameter Core Insulation Min-Max (mm)	Reference number Conductor material		Cross section (sq.mm.)	Diameter Core Insulation Min-Max (mm)	Reference number Conductor material	
		Al	Cu			Al	Cu
25	12.7 - 25.0	RSTI-5810	RSTI-5830	25	12.7 - 25.0	RSTI-5810	RSTI-5830
35	12.7 - 25.0	RSTI-5811	RSTI-5831	35	12.7 - 25.0	RSTI-5811	RSTI-5831
50	12.7 - 25.0	RSTI-5812	RSTI-5832	50	12.7 - 25.0	RSTI-5812	RSTI-5832
70	12.7 - 25.0	RSTI-5813	RSTI-5833	70	12.7 - 25.0	RSTI-5813	RSTI-5833
95	12.7 - 25.0	RSTI-5814	RSTI-5834	95	12.7 - 25.0	RSTI-5814	RSTI-5834
120	12.7 - 25.0	RSTI-5815	RSTI-5835	120	12.7 - 25.0	RSTI-5815	RSTI-5835
150	21.3 - 34.6	RSTI-5826	RSTI-5846	150	21.3 - 34.6	RSTI-5826	RSTI-5846
185	21.3 - 34.6	RSTI-5827	RSTI-5847	185	21.3 - 34.6	RSTI-5827	RSTI-5847
240	21.3 - 34.6	RSTI-5828	RSTI-5848	240	21.3 - 34.6	RSTI-5828	RSTI-5848
300	21.3 - 34.6	RSTI-5829	RSTI-5849	300	21.3 - 34.6	RSTI-5829	RSTI-5849

* Kits including deep indent lugs are on request

Screen separable connection system with mechanical lugs and shear bolts

12kV			24kV		
Cross section (sq.mm.)	Diameter Core Insulation Min-Max (mm)	Reference number Conductor material	Cross section (sq.mm.)	Diameter Core Insulation Min-Max (mm)	Reference number Conductor material
		Al or Cu			Al or Cu
35-90	12.7 - 25.0	RSTI-5851	35-70	12.7 - 25.0	RSTI-5851
95-120	12.7 - 25.0	RSTI-5852	95-185	17.0 - 32.6	RSTI-5853
95-240	17.0 - 32.6	RSTI-5853	95-240	21.3 - 34.6	RSTI-5854
150-240	21.3 - 34.6	RSTI-5854	185-300	21.3 - 34.6	RSTI-5855
185-300	21.3 - 34.6	RSTI-5855			

RSTI-CC

Raychem screened, separable, coupling connection system, 630A up to 36 (42) kV

Screen separable coupling connection system 36kV with DIN compression lugs



Cross section (sq.mm.)	Diameter Core Insulation Min-Max (mm)	Reference number Conductor material	
		Al	Cu
50	22.4 - 33.6	RSTI-CC-6611	RSTI-CC-6621
70	22.4 - 33.6	RSTI-CC-6612	RSTI-CC-6622
95	22.4 - 33.6	RSTI-CC-6613	RSTI-CC-6623
120	22.4 - 33.6	RSTI-CC-6614	RSTI-CC-6624
150	28.9 - 40.0	RSTI-CC-6615	RSTI-CC-6625
185	28.9 - 40.0	RSTI-CC-6616	RSTI-CC-6626
240	28.9 - 40.0	RSTI-CC-6617	RSTI-CC-6627
300	28.9 - 40.0	RSTI-CC-6618	RSTI-CC-6628

* Kits including deep indent lugs are on request

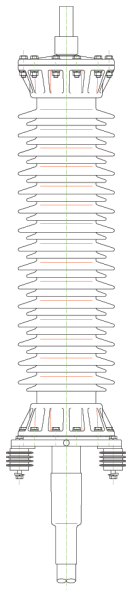
Screen separable coupling connection system 36kV with mechanical lugs and shear bolts

Cross section (sq.mm.)	Diameter Core Insulation Min-Max (mm)	Reference number Conductor material
		Al or Cu
35-95	22.4 - 33.6	RSTI-CC-6651
95-120	22.4 - 33.6	RSTI-CC-6652
150-240	28.9 - 40.0	RSTI-CC-6653
300	28.9 - 40.0	RSTI-CC-6655

* Kits for 3-core applications on request

PORCELAIN & COMPOSITE OUTDOOR TERMINATION

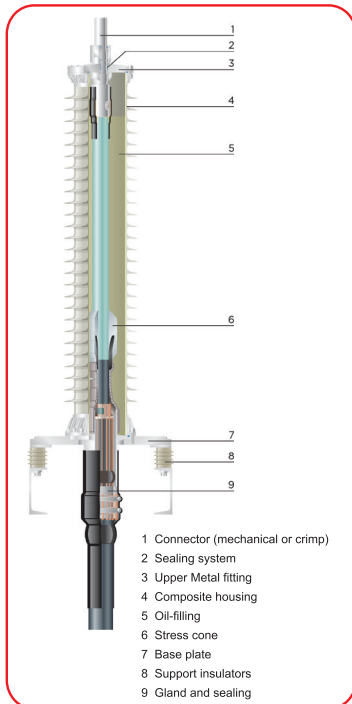
Porcelain Outdoor Termination for 123kV



Fluid-filled outdoor termination for cables with XLPE insulator, porcelain insulator, solid rod connector bolt and support insulators.

Electrical Data		
Relevant standard	kV	IEC 60840
Rated Voltage	kV	123
Rated frequency	kV	50/60
Lightning impulse voltage 1,2/50us	kV	550
Power frequency voltage with stand dry (30min)	kV	160
Power frequency voltage withstand wet (10s)	kV	230
DC voltage withstand	kV	245
Rated current		as per cable
Rated short-circuit current (conductor) (at pole center distance of 1100mm)	kA	as per cable, <100
Rated short circuit current (sheath) 1s	kA	40
Creepage distance	kA	3906
Total protected creepage (90degree shadow)	mm	2601
Flash-over distance	Mm	1150
Pollution level (IEC 60137, VDE 0674 Teil5)		IV
Withstand Voltage of support insulators (AC/DC)	kV	10/20
Mechanical Data		
Length L	mm	1715
Outer diameter D of insulator	mm	360
Inner diameter of insulator	mm	165
Cantilever force	N	13000
Max permissible radial pull at connection bolt	N	2000
Diameter of connection bolt	mm	50
Length of connection bolt	mm	110
Earth connection		4 x M12
Weight approx.	kg	200

Composite Outdoor Termination for 123kV up to 170kV



1 Connector (mechanical or crimp)
2 Sealing system
3 Upper Metal fitting
4 Composite housing
5 Oil-filling
6 Stress cone
7 Base plate
8 Support insulators
9 Gland and sealing

Application

The termination is designed for voltage classes up to 170kV and to operate under severe environmental conditions. Polymeric insulated cables of various designs can be adopted with respect to shielding and metal sheath. Composite housings with different creepage lengths up to 50mm/kV are available covering the most and also extreme pollution level according to IEC 60071-1 1996, IEC 60071-2 1996 and IEEE-1313.1 1996

Features

- Pressure-tight and light weight composite housing
- Pre fabricated and factory tested Si-rubber stress cone
- Torque-controlled conductor bolt
- H/S components used for sealing
- No special tools required to install the termination
- Si-oil filling (filling from the top)
- Isolated base plate for sectionalisation
- Fitting made of corrosion resistant alloy
- Type tested according to IEC 60840 and IEEE 48 standards.



Technical Data		OHVT-145
Highest Voltage U_m	kV	145
Lightning Impulse Voltage	kV	650
Length	mm	1880
Diameter over sheds	mm	294
Cantilever Force	N	5000
Flashover Distance	mm	on demand
Creepage Distance	mm	on demand
Pollution Level (IEC 60137; 1995, VDE 0674, part5)		II
Oil volume approx.	l	35
Weight approx.	kg	120
Max. Conductor size Cu/Al approx.	mm ²	1200
Outer Diameter Cable Insulation	mm	≤90
Outer Diameter Cable Oversheath	mm	≤110

HIGH VOLTAGE SPLICING KIT

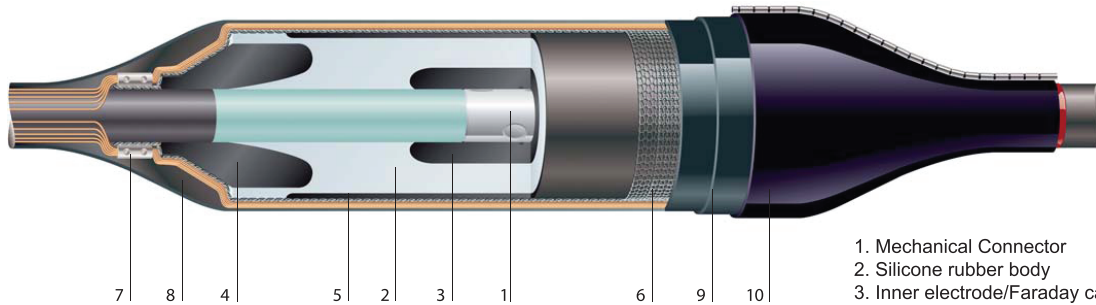
Raychem One Piece Joint up to 145kV

Application

The joint is a pre-fabricated one-piece design for voltage classes up to 145kV. Polymeric insulated cables of various designs can be adapted with respect to shielding and metal sheath. The silicone rubber joint body with integrated geometrical stress control provides proven electrical function. The joint components combine electrical performance, stress control and moisture sealing to provide the important functions required for all High Voltage products.

Features

- Premoulded one-piece joint body.
- Torque-controlled connector.
- Choice of outer sealing and protection systems.
- Joint fits on all polymeric cable constructions.
- Proven shield continuity concept.
- Factory tested Silicon-rubber body.
- Special silicone rubber provides perfect compression force for optimised electrical performance.
- Simple assembly.
- No tension set of joint body.
- Moulded thick outer conductive screen.
- Geometrical electrical stress control by moulded conductive deflectors.
- Type tested according to IEC 60840, IEEE 404, GB 11017 standard.
- Manufactured according to ISO 9001 and ISO 14001.



1. Mechanical Connector
2. Silicone rubber body
3. Inner electrode/Faraday cage
4. Deflector
5. Outer Screen
6. Copper mesh
7. Solderless shield connection
8. Sealant/mastic
9. Insulating tubes
10. Outer protection with integrated moisture barrier

Technical data		123 kV
Rated voltage U _o /U (U _m)	kV	64/115 (123)
Basic impulse level	kV	550
Max. continuous operating temperature	C	90
Max. conductor emergency temperature	C	150
Conductor shrot circuit temperature	C	250
Short circuit current (sheath)	kA / 1sec	40
Application Range		
Conductor	sq.mm.	up to 1200
Diameter over Insulation	mm	56 - 78
* For special applications and bigger cable sizes please contract us		

Tools

Tool required for cable preparation can also be purchased or rented at Tyco Electronics Energy Division. (See brochure EPP-0756 and EPP-1543)



Cable Stripper



Gas Torch



Straightening slide rails



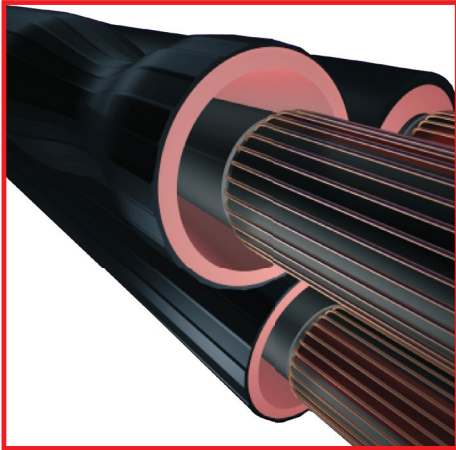
Tool Box



Heating Blanket

SXSU - MEDIUM VOLTAGE INLINE JOINT
CSJR - COLD SHRINKABLE ISTRAIGHT JOINT

SXSU - Medium Voltage Inline Joints



Selection Table		
Rated Voltage	Application range (mm ²)	Cat.No.
24kV	25 - 95	SXSU - 5121
	95 - 240	SXSU - 5131
	240 - 500	SXSU - 5141
	630 - 800	SXSU - 5151
	1000 - 1200	SXSU - 5161
36kV	35 - 95	SXSU - 6121
	95 - 150	SXSU - 6131
	185 - 400	SXSU - 6141
	500 - 800	SXSU - 6151
	800 - 1200	SXSU - 6161
	35 - 150	SXSU - 6122
	150 - 300	SXSU - 6132
	400 - 630	SXSU - 6142
	800 - 1200	SXSU - 6152

CSJR - Raychem cold shrinkable inline joints with Rayvolve EPDM sleeve as outer protection

Raychem joint "CSJR" without connector		
Rated Voltage	Application range (mm ²)	Cat.No.
12kV	95 - 240	CSJR-12B/1XU-1XU
	185 - 300	CSJR-12C/1XU-1XU
	240 - 400	CSJR-12D/1XU-1XU
	500 - 800	CSJR-12E/1XU-1XU
24kV	35 - 185	CSJR-24B/1XU-1XU
	95 - 300	CSJR-24C/1XU-1XU
	185 - 400	CSJR-24D/1XU-1XU
	400 - 630	CSJR-24E/1XU-1XU
36kV	800 - 100	CSJR-24F/1XU-1XU
	70-240	CSJR-36D/1XU-1XU
	240 -630	CSJR-36E/1XU-1XU
	500 - 800	CSJR-36F/1XU-1XU

Raychem joint "CSJR" mechanic connector		
Rated Voltage	Application range (mm ²)	Cat.No.
12kV	95 - 240	CSJR-12B/1XU-1XU-M
	185 - 300	CSJR-12C/1XU-1XU-M
	240 - 400	CSJR-12D/1XU-1XU-M
	500	CSJR-12E/1XU-1XU-M1
	630	CSJR-12E/1XU-1XU-M2
24kV	35 - 150	CSJR-24B/1XU-1XU-M
	95 - 240	CSJR-24C/1XU-1XU-M1
	120 - 300	CSJR-24C/1XU-1XU-M2
	185 - 400	CSJR-24D/1XU-1XU-M
	500	CSJR-24E/1XU-1XU-M
	630	CSJR-24E/1XU-1XU-M2
36kV	95 - 240	CSJR-36D/1XU-1XU-M
	240 - 400	CSJR-36E/1XU-1XU-M1
	500	CSJR-36E/1XU-1XU-M2
	630	CSJR-36E/1XU-1XU-M3

