



RAYCHEM SCREENED SEPARABLE CONNECTORS

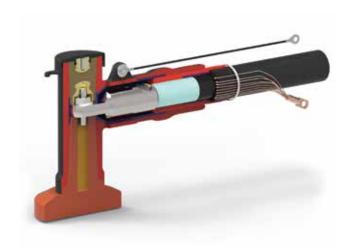
FOR SWITCHGEARS AND TRANSFORMERS IN MEDIUM VOLTAGE DISTRIBUTION NETWORKS

ADVANCED SWITCHGEAR CONNECT TECHNOLOGY FOR MEDIUM VOLTAGE NETWORKS

For more than 60 years, TE Connectivity (TE) has supported the delivery of power through well-known product lines like Raychem in a wide of array of industries, applications and environments. TE has a proven track record of advanced materials, technical innovation, reliable performance, ease of installation, technical support and has recently added new sensor capabilities. TE provides Raychem screened separable connectors RSTI products for applications including:

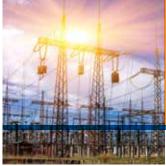
- Substations
- Wind farms
- Solar farms

- Industrial Applications
- Railways
- · Oil and Gas











TE'S RAYCHEM SCREENED ELBOW/STRAIGHT SEPARABLE CONNECTORS RSES/RSSS

FOR INTERFACE A (EN 50180/EN 50181): 250 A, UP TO 24 kV WITH INTEGRATED SEALING

KEY FEATURES

- Range taking mechanical shear bolt cable lugs
- Hybrid material design for outstanding mechanical and electrical performance
- Reliable operation even under harsh environmental conditions
- Screened connector body for improved safety
- Molded cable adapter with integrated sealing for easier installation
- Optional Voltage Detection (VD) point
- Optional Metal Housing (MH)

TE Connectivity (TE) further extends its comprehensive portfolio of separable connectors with the new generation of TE's Raychem Screened Elbow and Straight Separable connectors RSES/RSSS.

TE's Raychem Screened Elbow and Straight Separable connectors RSES/RSSS are designed to connect single-core polymeric cables to medium voltage gas insulated switchgears and other equipments using bushings type "A" (according to EN 50180/EN 50181) specified for 250A continuous current. The RSES and RSSS connectors are compliant with CENELEC HD 629.1 S2 02/2006+A1:2008. and tested for a system voltage up to 24 kV.

Made of a combination of durable EPDM rubber for the outer body and highly modified silicone rubber for the inner insulation, RSES and RSSS are equally suited for indoor and outdoor installations even in harshest environments while offering outstanding electrical performance. The separable connectors are screened by an earthed outer conductive layer that ensures a safe and reliable operation. Furthermore the improved cable adapter with integrated sealing enables a fast and easy installation.

Using mechanical shear bolt cable lugs, RSES and RSSS are easy and quick to install while supporting a wide range of different cable cross sections (16-150 mm²). TE's RSES and RSSS connectors can be equipped with a capacitive Voltage Detection (VD) point to determine the presence of voltage in the cable network or with a Metal Housing (MH) for an extra level of safety to protect against electric shock.

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.



TE's Raychem Screened Separable Connectors RSES/RSSS







TE's RSES and RSSS separable connectors have been tested in accordance with the international specifications (e.g. CENELEC HD 629.1 S2 02/2006+A1:2008) based on the ratings given below. The cable lugs supplied with the separable connectors have been tested in accordance with IEC 61238-1 on aluminium and copper conductors in the given ranges.

TECHNICAL DATA					
Conductor Cross section Range	16 - 150 mm²				
Diameter over conductor (round, stranded)	4,6 - 15,0 mm				
Diameter over conductor (round, solid)	3,5 - 13,8 mm				
Cable Insulation Diameter Range	12,7 - 28,5 mm				
Maximum System Voltage	24 kV				
Continuous Current Rating	250 A				
Basic Impulse Level	125 kV				
Partial Discharge at 2 U ₀	< 3 pc				
AC Voltage Withstand, 5 min	57 kV				
DC Voltage Withstand, 15 min	76 kV				

TE's RSES and RSSS separable connectors pass a 100% routine test procedure including: AC Voltage Withstand and Partial Discharge Test.



RSES-VD: Elbow connector with voltage detection point

RSSS-VD: Straight connector with voltage detection point



PRODUCT SELECTION TABLE							
Kit Designation	Connector Type	Conductor cross-section (mm²) *			Diameter over Insulation		
('Type' - 'Size')	Connector Type	12 kV	17,5 kV	24 kV	(mm)		
RSSS-525A	Straight	16** - 70	16** - 50	16**	12,7 - 19,2		
RSSS-525B	Straight	95	50 - 95	25 - 95	17,9 - 25,0		
RSSS-525C	Straight	95 - 150	70 - 120	70 - 95	17,9 - 25,0		
RSSS-525D	Straight	-	120 - 150	70 - 150	21,9 - 28,5		
RSES-525A	Elbow	16** - 70	16** - 50	16**	12,7 - 19,2		
RSES-525B	Elbow	95	50 - 95	25 - 95	17,9 - 25,0		
RSES-525C	Elbow	95 - 150	70 - 120	70 - 95	17,9 - 25,0		
RSES-525D	Elbow	-	120 - 150	70 - 150	21,9 - 28,5		

Default kits come without voltage detection point and metal housing, are designed for cables with wire shield and don't include accessories for earthing.

To add accessories to the kit's contents, please use the following kit modification codes:

- Add "-VD" to the type designation (RSES/RSSS) for a kit with voltage detection point (e.g. RSES-VD-525A)
 Add "-MH" to the type designation (RSES) for a kit with metal housing (e.g. RSES-MH-525A) [only compatible with elbows without voltage detection point.]
- Add "-MH" to the type designation (RSES) for a kit with metal housing (e.g. RSES-MH-52A) [Only compatible with enough and "-E" to the size designation (525x) for compatibility to cables with cold-strippable semi-conductive layer (e.g. RSES-525A-FL)
 Add "-E" to the end of the kit designation for a kit that includes wire shield earthing accessories (e.g. RSES-525A-E)
 Add "-01" to the end of the kit designation for a kit that includes Cu tape shield earthing accessories (e.g. RSES-525A-01)
 Add "-02" to the end of the kit designation for a kit that includes Al foil shield earthing accessories (e.g. RSES-525A-02)

*Applicable for conductors acc. to IEC 60228 class 1, class 2 compacted and class 5 compacted. *

For Al class 1 & Cu class 5: 25mm²: For Cu class 1: 10mm²

te.com/energy

©2018 TE Connectivity. All Rights Reserved. EPP-2856-04/18-EN

Raychem, TE, TE Connectivity and TE connectivity (logo) are trademarks. Other logos, product and/or company names might be trademarks of their respective owners. While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

FOR MORE INFORMATION: **TE Technical Support Centers**

USA: + 1800 327 6996 France: + 33 380 583 200 UK: + 44 0870 870 7500 Germany: + 49 896 089 903 Spain: + 34 916 630 400 + 39 333 250 0915 Italv: + 32 16-508-695 Benelux: Canada: +1(905)475-6222 + 52 (0) 55-1106-0800 Mexico: Latin/S. America: + 54 (0) 11-4733-2200 China: + 86 (0) 400-820-6015



RSES 52xx

Raychem Screened Adapter System for CENELEC A Bushing 250 A up to 24 kV

Screened Adapters

FEATURES

- Straight or angled prefabricated shielded adapter made of EPDM rubber, which does not require heat during installation
- Integrated stress control. Separate termination not required
- The kit contains materials for the screening of 3-core cables.
 Up to 2000 mm tail length
- Test point for capacitive voltage measurement

APPLICATION

- For round polymeric insulated single and 3-core cables
- For connection to insulator bushing type A (250 A) in accordance with EN 50181
- Disconnection of the body is only permitted when power has been turned off

CONFORMS TO

 Tested in accordance to ANSI/IEEE 386, IEC 540, VDE 0278

RSES for angled connection of single and 3-core incl. mechanical lug and core screening kit



Product name	Rated voltage kV	Cross-section mm ²	Insul. diam mm	Tail length mm	Part number
RSES-5202	12	25	13.5 - 17.4	2000	973329-011
RSES-5205	12	50	13.5 – 17.4	2000	653311-011
RSES-5219	12	95	16.5 – 20.8	2000	665773-011
RSES-5212	24	25	16.3 – 20.8	2000	472227-000
RSES-5215	24	50	16.3 – 20.8	2000	600683-000
RSES-5229	24	95	19.6 - 24.1	2000	481257-011

RSSS for straight connection of single and 3-core, incl. compression lug



Product name	Rated voltage kV	Cross-section mm ²	Insul. diam mm	Tail length mm	Part number
RSSS-5205	12	50	13.5 – 17.4	2000	242591-000
RSSS-5219	12	95	16.3 – 20.8	2000	202919-011
RSSS-5215	24	50	16.3 – 20.8	2000	209543-011
RSSS-5229	24	95	19.6 – 24.1	2000	129305-000

Protective cap for bushing type A

Product name	Description	Part number
SMOE-63917	Shielded connection protection	CN6629-010

NOTE For temporary protection of the switchnear bushing. Sold in kits of 3, including installation instructions





RAYCHEM SCREENED SEPARABLE ELBOW CONNECTION SYSTEM RSES

FOR INTERFACE B (EN 50180/EN 50181): 400 A, UP TO 36 kV

KEY FEATURES

- Hybrid material design: Flexible silicone cable adapter and rugged EPDM body
- Reliable operation even under harsh environmental conditions
- Easy installation due to flexible silicone cable adapter
- Screened connector body for improved safety and protection against accidental contact
- Easily accessible capacitve test point for Voltage Detection System (VDS)
- Shield-break design for cable outer sheath testing without disconnection of RSES

TE Connectivity's (TE) Raychem Screened Separable Elbow connection system, RSES are the latest addition to our comprehensive portfolio of separable connectors. TE's RSES are designed to connect polymeric cables to medium voltage gas insulated switchgears, transformers or motors which are using bushings type "B" according to EN 50180/EN 50181 specified for 400 A continuous current. The RSES connectors are compliant with CENELEC HD 629.1 S2 02/2006+A1:2008.

The NEW Hybrid RSES combines all the benefits of EPDM's long service life with silicone rubber's ease of installation characteristics for an overall superior product solution. The durable EPDM insulation body provides reliable performance indoors and outdoors, especially in harsh environmental conditions. Plus, its rugged, high performance capabilities enable easy handling during push-on and connection procedures. In addition, the flexible silicone stress cone adapter ensures fast and easy installations even on larger cable cross sections.

A capacitive Voltage Detection (VD) point is built into every connector, which detects the presence of voltage in a cable network and thus helps avoid possible injury during operation and maintenance.

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.









TE's RSES separable connectors meet CENELEC HD 629.1 S2 requirements and pass a 100% routine test procedure including: AC Voltage Withstand and Partial Discharge Test

TECHNICAL DATA				
Diameter over insulation	24,5 - 39.6 mm			
Conductor cross section Range	50 - 300 mm²			
Maximum system voltage	36 kV			
Continuous current rating	400 A			
Basic impulse level	194 kV			
Partial Discharge at 2 UO	< 2 pC			
AC Voltage Withstand (5 min)	85,5 kV			
DC voltage withstand (15 min)	114 kV			
Thermal short circuit (1 sec)	18 kA			

PRODUCT SELECTION INFORMATION						
Product designation*	tion* at capie rated voltage				Diameter over insulation (mm)	
	24 kV	36 kV	modiacion (mm)			
RSES-645A	-	50 - 95	24,5 - 32			
RSES-645B	120 - 240	95 - 120	24,5 - 32			
RSES-645C	-	150 - 240	30,8 - 39,6			
RSES-645D	185 - 300	185 - 300	30,8 - 39,6			

 $[\]ensuremath{^{*}}$ For use with cables, other than copper wire screened cable, please contact us.



te.com/energy

 $@\ 2020\ TE\ Connectivity.\ All\ Rights\ Reserved.\ EPP-3388-DDS-6/20-RAYCHEM-ELBOW-CONNECTOR-TE$

TE Connectivity, TE connectivity (logo), EVERY CONNECTION COUNTS, AMP, AMPACT, Axicom, Bowthorpe EMP, Crompton Instruments, Raychem, SIMEL, UTILUX are trademarks. Other logos, product and Company names mentioned herein may be trademarks of their respective owners. While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. Te expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this brochure are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

FOR MORE INFORMATION: TE Technical Support Centers

USA/Canada: +1 800-327-6996 +55 11-2103-6023 Brazil: Mexico: +52 55-1106-0800 South America: +57 1-319-8962 Benelux: +32 16-508-695 France: +33 (0) 38-058-3210 +49 (0) 89-608-9903 Germany/Switzerland: +39 335-834-3453 Italv: Middle East/Africa: +971 4-211-7020 Russia: +7 495-790-790-2-200

 Spain/Portugal:
 +34 912-681-885

 UK:
 +44 08708-707-500

 China:
 +86 400-820-6015



RSES 64xx

Raychem Screened Adapter System for CENELEC B Bushing 400 A for 24 and 36 kV

FEATURES

- Mechanical lugs suitable for copper and aluminium conductors
- Capacitive test point
- Complete kit including lugs facilitates installation and storage

APPLICATION

- Design fits 400 A bushings (interface "B") as specified by EN 50180 and EN 50181
- Cable cross-sections from 50 to 300mm²

CONFORMS TO

The screened cable connector exceeds CENELEC HD 629.1 S2 requirements, which includes BS, VDE and other international specifications

RSES 6400 for single and three core cables including mechanical lugs



Product name	Rated voltage kV	Cross-section (mm) ²	Insul. diam (mm)	Part number
RSES-6451	24	70 – 95	22.4 – 35.5	CX5399-011
RSES-6452	24	95 – 240	22.4 – 35.5	CX5398-011
RSES-6454	24	185 – 300	22.4 - 35.5	CX5404-011
RSES-6451	36	50 – 95	22.4 – 35.5	CX5399-011
RSES-6452	36	95 – 150	22.4 - 35.5	CX5398-011
RSES-6453	36	120 – 240	28.9 - 42.0	CX5401-011
RSES-6455	36	185 – 300	28.9 - 42.0	CX5402-011















TE'S RAYCHEM SCREENED SEPARABLE ELBOW CONNECTION SYSTEM ELBC

FOR INTERFACE C (EN 50180/EN 50181) 630 A, UP TO 24 KV

RAYCHEM SCREENED SEPARABLE ELBOW CONNECTION SYSTEM ELBC

FOR INTERFACE C (EN 50180/EN 50181): 630 A, UP TO 24 KV

TE Connectivity's (TE) Raychem Screened Separable Elbow Connection System ELBC are designed to connect polymeric cables to medium voltage gas insulated switchgears, transformers, motors which are using bushings type "C" according to EN 50180/EN 50181 specified for 630 A continuous current.

The ELBC connectors are compliant with CENELEC HD 629.1 S3 and tested for a maximum system voltage up to 24 kV. The new hybrid ELBC combines the material advantages of both EPDM and silicone rubber materials and therefore, provides a long service life and easy installation. A durable EPDM insulation body provides a hard-wearing as well as weather-resistant performance, not only for indoor but also for outdoor applications in harsh environments. A silicone stress cone adapter ensures a fast and easy installation even on larger cable cross sections, and the hard body of ELBC eases the handling during push-on and connection procedure.

TE's ELBC connector provides a capacitive Voltage Detection (VD) point to determine the presence of voltage in the cable network and therefore, helps avoid possible injury during operation and maintenance.

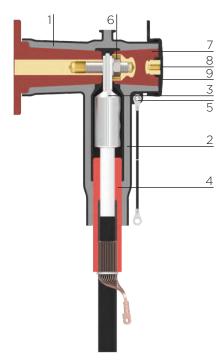


- Hybrid material design: Flexible silicone cable adapter and rugged EPDM body
- Reliable operation even under harsh environmental conditions
- Easy installation due to flexible silicone cable adapter
- Screened connector body for improved safety and protect the connection system against accidental contact
- Easily accessible capacitve test point for Voltage Detection System (VDS)
- Shield-break design (oversheath-testing without disconnection of connector)
- Wide application range covers from 35 to 300mm² with only two cable adaptors
- Mechanical lugs designed to accept aluminium and copper conductors.





DESIGN AND CONSTRUCTION:



Base Connector



Sandwich-molded screened EPDM body is long lasting and weather-resistant for outdoor applications.

2. Inner screen

A conductive inner layer, as a faraday cage around the compression or mechanical lug, prevents corona at rated voltage.

3. Mechanical lugs

Mechanical lugs with shear bolts for connecting either aluminium or copper conductor cables.

4. Stress cone adapter

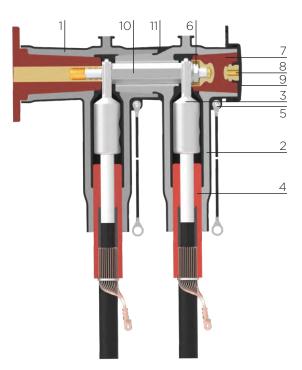
Relieves electrical stress at the point where the cable screen is cut. The insulated section, extending beyond the wire shielding, provides a convenient point for oversheath testing.

5. Earthing eye and ground lead

Provides a connection point for earthing the screen.

6. Threaded pin set

A threaded pin together with a combinut ensure high-performance electrical and mechanical contact with the bushing.



Base Connector + Coupling Connector

7. Rear plug with test point

Removable rear plug with capacitive test point.

8. Test point

The test point is used to determine whether the circuit is energised; alternatively it can be used for phasing.

9. Conductive end cap

Electrical screen and protection of the rear end of the separable connector.

10. Coupling boult

Together with threaded pin, combinut ensure high electrical and mechanical performance with the previously installed base connector.

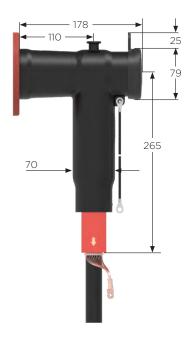
11. Coupling Connector

Sandwich-molded screened EPDM body is long lasting and weather-resistant for outdoor applications.

APPLICATIONS

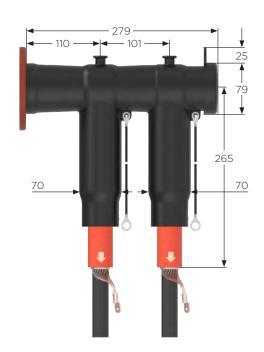
SINGLE CONNECTION

Items required for 3 phases: 1 x ELBC-58xx (Basic kit)



DOUBLE CONNECTION

Items required for 3 phases: 1 x ELBC-58xx (Basic kit) 1 x ELBC-CC-58xx (Coupling connector kit)

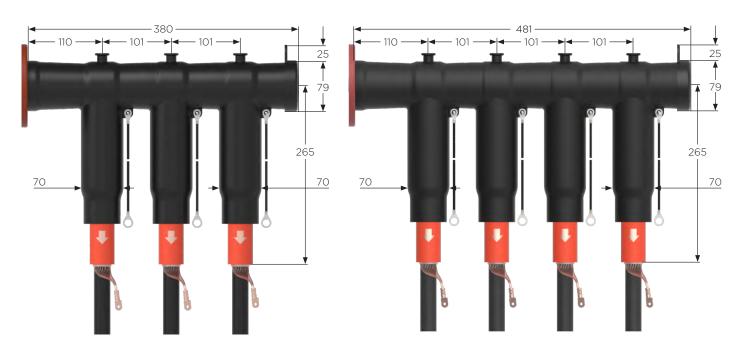


TRIPLE CONNECTION

Items required for 3 phases: 1 x ELBC - 58xx (Basic Kit) 2 x ELBC - CC - 58xx (Coupling Connector Kit)

QUADRUPLE CONNECTION

Items required for 3 Phases 1 x ELBC - 58xx (Basic Kit) 3 x ELBC - CC - 58xx (Coupling Connector Kit)



ELBC CONNECTION SYSTEM - TECHNICAL DATA

Technical Data for ELBC	
Diameter over insulation	16.2 - 34.6 mm
Conductor cross section Range	35 - 300 mm ²
Maximum system voltage	24 kV
Continuous current rating	630 A
Basic impulse level	125 kV
Partial Discharge at 2 UO	< 2 pC
AC Voltage Withstand (5 min)	57 kV
Thermal short circuit (1 sec)	22.5 kA

Voltage Class (kV)	Cross Section (mm²)	Diameter Over Insulation (mm)	ELBC Kit	ELBC-CC Kit
	70 - 95	16.2 - 22.8	ELBC-5851	ELBC-CC-5851
12 kV	95 - 240	18.6 - 28.4	ELBC-5853	ELBC-CC-5853
	150 - 300	21.6 - 30.4	ELBC-5855	ELBC-CC-5855
	35 - 95	17.0 - 23.1	ELBC-5851	ELBC-CC-5851
17.5 kV	95 - 185	21.6 - 27.8	ELBC-5853	ELBC-CC-5853
	120 - 300	23.0 - 32.3	ELBC-5855	ELBC-CC-5855
	35 - 70	17.9 - 23.4	ELBC-5851	ELBC-CC-5851
24 kV	95 - 185	21.9 - 30.1	ELBC-5853	ELBC-CC-5853
	120 - 300	24.3 - 34.6	ELBC-5855	ELBC-CC-5855

TE's ELBC separable connectors meet CENELEC HD 629.1 S3 requirements and pass a 100% routine test procedure including: AC Voltage Withstand and Partial Discharge Test.

ACCESSORIES

TEST ROD

Ref. no.:

RSTI-68TR; Length: 310 mm (3 pcs) RSTI-68TRL; Length: 460 mm (3 pcs)

RSTI-68TRA; Kit includes 2 short and 1 long test rods RSTI-68TRB; Kit includes 1 short and 2 long test rods



TERMINATING PLUG

Ref. no.: RSTI-68TP (3 pcs)



INSULATING CAP

Ref. no.: RSTI-68RC (1 pc)

One piece per set



DISCONNECTABLE INLINE JOINT

Items required for 3 phases: 1 x ELBC-58xx (Basic kit)

1 x RSTI-68TP (Terminating plug kit)

1 x ELBC-CC-58xx (Coupling connector kit)

Note: All applications as shown in the brochure need to have a mechanical support, based on the requirements for dynamic short circuit.



Ball diameter: 20 mm RSTI-68EA25 (3 pcs); Ball diameter: 25 mm





VOLTAGE DETECTOR FOR ELBC

- Continuous monitoring of voltage presence, and indication of insulation problems
- Alarm indication of high partial discharge activities within switchgears and equipment (R5 version)
- Patented self-test function for max. safety, allowing to distinguish between voltage absence and defect device/connections
- Maintenance free; no battery or external power required
- Integrated 3-phase test point for phase comparison and sequence test
- Easy interface for communication and remote monitoring with dry relay contact
- Adjustable capacitance module to suit different applications and voltage levels



Assembly of CAPDIS to ELBC



Connections to CAPDIS

Product		Part Description	Part number
CAPDIS	CAPDIS S1 R4.5	CAPDIS-S1+R4.5 + C2M-M	ER3563-000
	CAPDIS S2 R4.5	CAPDIS-S2+R4.5 + C2M-M	ER3564-000
	CAPDIS S1 R5	CAPDIS-S1_55 (R5) + C2M-M	ER3566-000
	CAPDIS S2 R5	CAPDIS-S2_55 (R5) + C2M-M	ER3567-000
Connecting Cable	3x phase 2,5-meter unscreened	EXRM-2101-CCS-01	EN5240-000
	3x phase 3-meter screened (coax.)	EXRM-2101-CCS-COAX-01	ER5246-000
Adapter set	Adapter set ELBC	ADAPT-CAPDIS-ELBC	On request

Learn more: TE.com/energy

© 2022 TE Connectivity. All Rights Reserved. CA-BRO-19-ELBC SWITCHGEAR CONNECT-06-22-EN

TE, TE Connectivity, TE connectivity (logo), EVERY CONNECTION COUNTS, Raychem are trademarks owned or licensed by TE Connectivity. Other logos, product and company names mentioned herein may be trademarks of their respective owners. While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions, specifications, and/or information contained herein are for reference purposes only and are subject to change without notice. Consult TE for the latest dimensions, specifications, and/or information. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

Connect with us:

TE.com/energy-contact



Raychem Switchgear Connection System for CENELEC C1 (630 A) and C2 (1250 A) for 12-36 kV

Cable rminations

FEATURES

- Angled prefabricated shielded adapter made of silicone rubber, which does not require heat during installation
- Integrated stress control. Separate termination not required
- 3-core kits include materials for core screening. Up to 2000 mm tail length
- Test point for capacitive voltage measurement
- Mechanical lugs included. Compression lugs on request
- The kits include materials for 3 phases

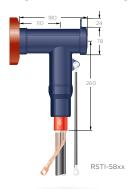
APPLICATION

- For round polymeric insulated single and 3-core cables
- For connection to insulator bushing type C1 (630 A) and C2 (1250A) in accordance with EN 50181
- Disconnection of the body is only permitted when power has been turned

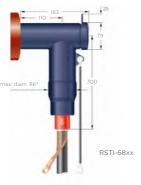
CONFORMS TO

 Tested in accordance to CENELEC HD 629.1 S2

RSTI Single connection single core







Product name	12 kV (mm) ²	24 kV (mm) ²	36 kV (mm) ²	Insul. diam (mm)	Part number
RSTI-5851	35 – 95	35 – 70	_	12.7 - 23.4	CM0009-011
RSTI-5852	95 – 120	-	-	12.7 - 23.4	CM0010-011
RSTI-5853	95 – 240	95 – 185	_	17.0 – 30.1	CM0011-011
RSTI-5854	150 – 240	95 – 240	-	21.2 - 34.6	CM0012-011
RSTI-5855	185 – 300	185 – 300	-	21.2 - 34.6	CM0013-011
RSTI-5856	240 - 400	-	-	21.2 - 34.6	CR5244-011
RSTI-3951	400	_	_	28.9 - 36.4	CR6086-011
RSTI-3952	500	-	_	28.9 - 36.4	CR6085-011
RSTI-3953	630	_	_	34.0 - 45.4	CR6077-011
RSTI-3954	800	-	_	34.0 - 45.4	CR6081-011
RSTI-5951	-	400	_	34.0 - 45.4	CR6082-011
RSTI-5952	_	500	-	34.0 - 45.4	CR6083-011
RSTI-5953	-	630	_	39.1 – 59.0	CR6084-011
RSTI-5954	_	800	-	39.1 - 59.0	CR6080-011
RSTI-6851	-	-	35 – 95	22.4 - 35.5	CR4949-011
RSTI-6852	-	-	95 – 150	22.4 - 35.5	CR4990-011
RSTI-6853	-	-	120 – 240	28.9 - 42.0	CR5011-011
RSTI-6855	-	-	185 – 300	28.9 - 42.0	CR5012-011
RSTI-6951	-	_	400	34.0 - 45.4	CR6079-011
RSTI-6952	-	-	500 - 630	39.1 - 59.0	CR6078-011
RSTI-6953	_	_	800	39.1 - 59.0	CR6087-011

NOTE

Mechanical lugs included. Compression lugs are available on request.

Core screen kits for copper tape screens available on request (add suffix 01 to part number)

Pins are required to couple RSTI-CC-58xx and RSTI-CC-68xx to RSTI-x95x, RSTI-SA.



RSTI-CC

Raychem Switchgear Connection System for CENELEC C1 (630 A) and C2 (1250 A) for 12-36 kV

FEATURES

- Angled prefabricated shielded parallel adapter made of silicone rubber, which does not require heat during installation
- Integrated stress control. Separate termination not required
- 3-core kits include materials for core screening. Up to 2000 mm tail length
- Test point for capacitive voltage measurement
- Mechanical lugs included. Compression lugs on request
- The kits include materials for 3 phases

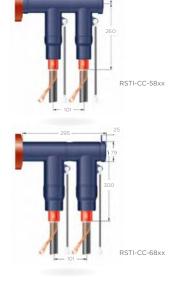
APPLICATION

- For parallel connection to adapter type RSTI-58xx
- For round polymeric insulated single and 3-core cables
- Disconnection of the body is only permitted when power has been turned off

CONFORMS TO

 Tested in accordance to CENELEC HD 629.1 S2

RSTI Parallel connection single core



Product name	12 kV (mm) ²	24 kV (mm) ²	36 kV (mm) ²	Insul. diam (mm)	Part number
RSTI-CC-5851	35 – 95	35 – 70	-	12.7 - 23.4	CM0094-011
RSTI-CC-5852	95 – 120	-	-	12.7 - 23.4	CM0095-011
RSTI-CC-5853	95 – 240	95 – 185	-	17.0 – 30.1	CM0096-011
RSTI-CC-5854	150 – 240	95 – 240	-	21.2 - 34.6	CM0097-011
RSTI-CC-5855	185 – 300	185 – 300	-	21.2 - 34.6	CM0099-011
RSTI-CC-5856	240 - 400	-	-	21.2 - 34.6	CR5240-011
RSTI-CC-3951	400	-	_	28.9 - 36.4	CS8877-011
RSTI-CC-3952	500	-	-	28.9 - 36.4	CS8875-011
RSTI-CC-3953	630	-	-	34.0 - 45.4	CS8874-011
RSTI-CC-3954	800	-	-	34.0 - 45.4	CS8884-011
RSTI-CC-5951	-	400	-	34.0 - 45.4	CS8880-011
RSTI-CC-5952	-	500	-	34.0 - 45.4	CS8879-011
RSTI-CC-5953	-	630	-	39.1 - 59.0	CS8872-011
RSTI-CC-5954	_	800	_	39.1 – 59.0	CS8882-011
RSTI-CC-6851	_	_	35 – 95	22.4 - 35.5	CR7869-011
RSTI-CC-6852	-	-	95 – 150	22.4 - 35.5	CR7867-011
RSTI-CC-6853	-	-	120 – 240	28.9 - 42.0	CR7866-011
RSTI-CC-6855	-	_	185 – 300	28.9 - 42.0	CR7868-011
RSTI-CC-6951	-	-	400	34.0 - 45.4	CS8881-011
RSTI-CC-6952	-	-	500 - 630	39.1 – 59.0	CS8873-011
RSTI-CC-6953	-	_	800	39.1 - 59.0	CS8876-011

NOTE

Mechanical lugs included. Compression lugs are available on request.

Core screen kits for copper tape screens available on request (add suffix 01 to part number).

Pins are required to couple RSTI-CC-58xx and RSTI-CC-68xx to RSTI-x95x, RSTI-SA.

Trifurcation kits for screened 3-core cables

Product name Kit length 600 mm	Part number	Part number Kit length 1200 mm	Part number	Dimensions over insulation (min max. mm)	Overall diameter (min max. mm)
RSTI-TRF-02	CF9506-011	RSTI-TRF-02-1200	CP7143-011	17.6 - 35.6	50.0 - 90.0

RSTI accessories



Product name	Accessory type	Part number
RSTI-68TR; Length: 310 mm	Test rod	CN9357-011
RSTI-68TRL; Length: 460 mm	Test rod	CN9356-011
RSTI-68TRA; Kit includes 2 short and 1 long testrod	Test rod	CN9358-011
RSTI-68TP	Terminating plug	CS9958-000
RSTI-68EA20; Ball diameter: 20 mm	Earthing adapter	CS8406-011
RSTI-68EA25; Ball diameter: 25 mm	Earthing adapter	CS8405-011
RSTI-SA-PIN	Coupling Pin	CU2787-011







Test rod

Raychem Screened Surge Arrester System 630 A for 12-36 kV

FEATURES

- Angled screened surge arrester
- The conductive layer on the arrester and the insulating body protect against accidental contact
- Test point for capacitive voltage measurement
- The kits include materials for 3 phases

APPLICATION

- The single adapter is used to connect to type C bushings in accordance with EN 50181 in compact switchgear
- The parallel adapter is connected to RSTI-58xx type connectors

CONFORMS TO

 Tested in accordance with IEC 60099-4 (May 2004)

RSTI-SA



Product name	Rated voltage kV	Part number		
Single connection				
RSTI-68SA1210	12	CS8930-000		
RSTI-68SA2410	24	CS8925-000		
RSTI-68SA3610	36	CS8920-000		
Parallel connection				
RSTI-CC-68SA1210	12	CS3113-000		
RSTI-CC-68SA2410	24	CS3114-069		
RSTI-CC-68SA3610	36	CS3036-000		

Technical data for single and parallel connection



Discharge current In	10 kA
Current impulse 4/10 µs	100 kA
Short circuit current IS	20 kA
Long-duration current impulse (1ms)	212 A

Residual voltages (kV)				
Voltage class UC	12	24	36	
Rated voltage UR	15	30	45	
Current impulse 8/20 µs				
5 kA	39.1	78.2	117.3	
10 kA	41.5	83.0	124.5	
20 kA	45.7	91.4	137.1	
Current impulse 1/20 µs				
10 kA	43.9	87.8	131.7	
Current impulse 1/20 µs				
125 kA	31.5	63.1	94.7	
500 kA	32.4	64.9	97.4	

