

# 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



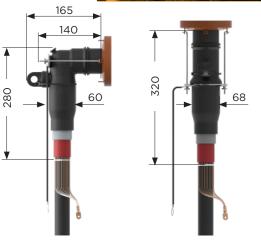


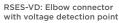


TE's RSES and RSSS separable connectors have been tested in accordance with the international specifications (e.g. CENELEC HD 629.1 S2 02/2006+A1:2008) based on the ratings given below. The cable lugs supplied with the separable connectors have been tested in accordance with IEC 61238-1 on aluminium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





RSSS-VD: Straight connector with voltage detection point



PRODUCT SELECTION TABLE						
Kit Designation ('Type' - 'Size')	Connector Type	Conductor cross-section (mm²) *			Diameter over Insulation	
		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 endows without v Add "-FL" 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)

#### For Al class 1 & Cu class 5: 25mm<sup>2</sup>: For Cu class 1: 10mm<sup>2</sup>

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<sup>\*</sup>Applicable for conductors acc. to IEC 60228 class 1, class 2 compacted and class 5 compacted. \*