



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 capacitive 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.

Separable Elbow Connection System RSES



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 mm ²
Maximum system voltage	36 kV
Continuous current rating	400 A
Basic impulse level	194 kV
Partial Discharge at 2 U ₀	< 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*	Conductor cross section (mm ²) at cable rated voltage		Diameter over insulation (mm)
	24 kV	36 kV	
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

* For use with cables, other than copper wire screened cable, please contact us.



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