



RSTI-58

Screened separable connection system 800 A up to 24 kV

General Description

RSTI: Raychem RSTI-58 screened separable connectors are designed to connect single- and three-core polymeric cables to medium-voltage gas insulated switchgear and other equipment using CENELEC bushings type "C" specified for 630/1250 A up to 24 kV. Made of a highly modified silicone rubber and protected by a thin-walled outer conductive screen connected to earth, RSTI-58 connectors are equally suited for indoor and outdoor installation. Supporting a wide application range, the design incorporates one body and two stress cone adapters to cover all cross-sections from 25 to 300 mm². The overall and cut-back dimensions are designed to take up minimum space in the terminal box. RSTI-58 connectors are equipped with a capacitive test point for determining whether the circuit is energized. This test point is protected by a conductive cap. After cable preparation and lubrication, the stress control adapter is simply slid into place, followed by the screened connector body. These two components can be installed under virtually any conditions. A separable mounting system ensures easy installation of the connector onto the bushing. All kits include highperformance multi-range mechanical or DIN compression lugs matching the design of the RSTI-58 connector.

The RSTI-CC screened coupling connector is designed to mate with the rear end of the base screened connector system connector system is designed for 24 kV.



Features & Benefits

RSTI:

- The insulation of the connector is made of a highly modified silicone rubber characterised by high tracking resistance, elongation at break and non-flammability.
- A thin-walled screen is permanently bonded onto the insulation and protects the connection system against unintentional contact.
- The screened connector need not be removed for oversheath testing.
- The screened cable connector exceeds CENELEC HD 629.1 S2 requirements, which includes BS, VDE and other international specifications.
- Design fits 630/1250 A bushings type "C" as specified by EN50180 and EN50181.
- The compact design supports the use of double "T" connections inside standard terminal boxes.
- The wide application range covers cable cross-sections from 25 to 300 mm².
- Conductor connection with mechanical or DIN lugs.
- Easily accessible rear plug with capacitive test point.
- Few accessories required for system test, double "T" and earth connection.
- Complete kit including lugs facilitates installation and storage.

RSTI-CC:

- The insulation of the coupling connector is made of a highly modified silicone rubber characterised by high tracking resistance, elongation at break and nonflammability.
- A thin-walled screen is permanently bonded onto the insulation and protects the connection system against accidental contact.
- The screened coupling connector need not be removed for oversheath testing.
- The combination of screened connector and coupling connector exceeds CENELEC HD 629.1 S2 requirements, which include BS, VDE and other international specifications.
- The combination of screened connector and coupling connector fits 630/1250 A bushings type "C" as specified by EN50180 and EN50181.
- The compact design supports the use of double "T" connections inside standard terminal boxes.
- The wide application range covers cable cross-sections from 25 to 300 mm².
- Conductor connection with mechanical or DIN lugs.
- Easily accessible rear plug with capacitive test point.
- Few accessories required for system test and earth connection.
- Complete kit including lugs for easier installation and storage.

Selection Information: dimensions shown in millimeters

Catalog Number	Cross Section (mm ²)	Diameter Reference number Core insulation (mm)	Lugs type	Voltage Level	Type
RSTI-5810	25	12.7- 23.4	Compression lugs	12/24	Front, Cu Conductor
RSTI-5811	35	12.7- 23.4	Compression lugs	12/24	Front, Cu Conductor
RSTI-5812	50	12.7- 23.4	Compression lugs	12/24	Front, Cu Conductor
RSTI-5813	70	12.7- 23.4	Compression lugs	12/24	Front, Cu Conductor
RSTI-5814	95	12.7- 23.4	Compression lugs	12/24	Front, Cu Conductor
RSTI-5815	120	12.7- 23.4	Compression lugs	12/24	Front, Cu Conductor
RSTI-5826	150	21.2- 34.6	Compression lugs	12/24	Front, Cu Conductor
RSTI-5827	185	21.2- 34.6	Compression lugs	12/24	Front, Cu Conductor
RSTI-5828	240	21.2- 34.6	Compression lugs	12/24	Front, Cu Conductor
RSTI-5829	300	21.2- 34.6	Compression lugs	12/24	Front, Cu Conductor
RSTI-5830	25	12.7- 23.4	Compression lugs	12/24	Front, Al Conductor
RSTI-5831	35	12.7- 23.4	Compression lugs	12/24	Front, Al Conductor
RSTI-5832	50	12.7- 23.4	Compression lugs	12/24	Front, Al Conductor
RSTI-5833	70	12.7- 23.4	Compression lugs	12/24	Front, Al Conductor
RSTI-5834	95	12.7- 23.4	Compression lugs	12/24	Front, Al Conductor
RSTI-5835	120	12.7- 23.4	Compression lugs	12/24	Front, Al Conductor
RSTI-5846	150	21.2- 34.6	Compression lugs	12/24	Front, Al Conductor
RSTI-5847	185	21.2- 34.6	Compression lugs	12/24	Front, Al Conductor
RSTI-5848	240	21.2- 34.6	Compression lugs	12/24	Front, Al Conductor
RSTI-5849	300	21.2- 34.6	Compression lugs	12/24	Front, Al Conductor
RSTI-5851	35-95	12.7- 23.4	Mechanical lugs and shear bolts	12/24	Front, Both Cu & Al Conductor
RSTI-5852	95-120	12.7- 23.4	Mechanical lugs and shear bolts	12	Front, Both Cu & Al Conductor
RSTI-5853	95-240	17.0- 30.1	Mechanical lugs and shear bolts	12/24	Front, Both Cu & Al Conductor
RSTI-5854	150-240	21.2- 34.6	Mechanical lugs and shear bolts	12/24	Front, Both Cu & Al Conductor
RSTI-5855	185-300	21.2- 34.6	Mechanical lugs and shear bolts	12/24	Front, Both Cu & Al Conductor
RSTI-CC-5810	25	12.7- 23.4	Compression lugs	12/24	Rear, Cu Conductor
RSTI-CC-5811	35	12.7- 23.4	Compression lugs	12/24	Rear, Cu Conductor
RSTI-CC-5812	50	12.7- 23.4	Compression lugs	12/24	Rear, Cu Conductor
RSTI-CC-5813	70	12.7- 23.4	Compression lugs	12/24	Rear, Cu Conductor
RSTI-CC-5814	95	12.7- 23.4	Compression lugs	12/24	Rear, Cu Conductor
RSTI-CC-5815	120	12.7- 23.4	Compression lugs	12/24	Rear, Cu Conductor
RSTI-CC-5826	150	21.2- 34.6	Compression lugs	12/24	Rear, Cu Conductor
RSTI-CC-5827	185	21.2- 34.6	Compression lugs	12/24	Rear, Cu Conductor
RSTI-CC-5828	240	21.2- 34.6	Compression lugs	12/24	Rear, Cu Conductor
RSTI-CC-5829	300	21.2- 34.6	Compression lugs	12/24	Rear, Cu Conductor
RSTI-CC-5830	25	12.7- 23.4	Compression lugs	12/24	Rear, Al Conductor
RSTI-CC-5831	35	12.7- 23.4	Compression lugs	12/24	Rear, Al Conductor
RSTI-CC-5832	50	12.7- 23.4	Compression lugs	12/24	Rear, Al Conductor
RSTI-CC-5833	70	12.7- 23.4	Compression lugs	12/24	Rear, Al Conductor
RSTI-CC-5834	95	12.7- 23.4	Compression lugs	12/24	Rear, Al Conductor
RSTI-CC-5835	120	12.7- 23.4	Compression lugs	12/24	Rear, Al Conductor
RSTI-CC-5846	150	21.2- 34.6	Compression lugs	12/24	Rear, Al Conductor
RSTI-CC-5847	185	21.2- 34.6	Compression lugs	12/24	Rear, Al Conductor
RSTI-CC-5848	240	21.2- 34.6	Compression lugs	12/24	Rear, Al Conductor
RSTI-CC-5849	300	21.2- 34.6	Compression lugs	12/24	Rear, Al Conductor
RSTI-CC-5851	35-95	12.7- 23.4	Mechanical lugs and shear bolts	12/24	Rear, Both Cu & Al Conductor
RSTI-CC-5852	95-120	12.7- 23.4	Mechanical lugs and shear bolts	12	Rear, Both Cu & Al Conductor
RSTI-CC-5853	95-240	17.0- 30.1	Mechanical lugs and shear bolts	12/24	Rear, Both Cu & Al Conductor
RSTI-CC-5854	150-240	21.2- 34.6	Mechanical lugs and shear bolts	12/24	Rear, Both Cu & Al Conductor
RSTI-CC-5855	185-300	21.2- 34.6	Mechanical lugs and shear bolts	12/24	Rear, Both Cu & Al Conductor