



Product Features:

- The screened coupling connector is designed to mate with the rear end of the RSTI base screened connector system designed for 42 kV
- The insulation of the coupling 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 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 S1 requirements, which include BS, VDE and other international specifications
- Design of combination fits 630A and 1250A bushings (Interface "C1" and "C2") as specified by EN 50180 and EN 50181
- The compact design supports the use of double «T» connections inside standard terminal boxes
- The wide application range covers cable cross-sections from 400 mm² to 1000 mm²
- Conductor connection with
 mechanical 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

Design and construction:



1. Screened body

A thin walled conductive outer screen is permanently bonded to the silicone rubber insulating material of the body.

2. Inner screen

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

3. Mechanical lug

Specially designed mechanical lugs 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 over sheath testing. **5. Earthing eye and ground lead** Provides a connection point for earthing the screen.

6. Threaded pin assembly

A threaded pin assembly together with a spring washer and hex nut ensure high-performance electrical and mechanical contact with the bushing.

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.

Applications

DOUBLE CONNECTION

Material required for 3 phases: 1 x RSTI-x95x (Basic kit) 1 x RSTI-CC-x95x (Coupling connector kit)



Accessories

TEST ROD

Ref. no.: RSTI-68TR; Length: 310 mm RSTI-68TRL; Length: 460 mm RSTI-68TRA; Kit includes 2 short and 1 long test rod



TERMINATING PLUG Ref. no.: RSTI-68TP



INSULATING CAP Ref. no.: RSTI-68RC One piece per set



SINGLE CORE BRANCH OFF

Items required for 3 phases: 1 x RSTI-x95x (Basic kit) 1 x RSTI-68TP (Terminating plug kit) 2 x RSTI-CC-x95x (Coupling connector kit)



| Cross Section (mm ²) | OF CONNECTOR BODY MAX Ø | | | |
|-------------------------------------|-------------------------|-------|-------|--|
| | 12 kV | 24 kV | 42 kV | |
| 630 | 90 | 94 | 99 | |
| 800 | 94 | 98 | 103 | |

DISCONNECTABLE INLINE JOINT

Items required for 3 phases: 1 x RSTI-x95x (Basic kit) 1 x RSTI-68TP (Terminating plug kit) 1 x RSTI-CC-x95x (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.

EARTHING ADAPTER

Ref. no.: RSTI-68EA20; Ball diameter: 20 mm RSTI-68EA25; Ball diameter: 25 mm





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| TECHNICAL DATA FOR RSTI-CC-68 | | |
|---------------------------------------|--|--|
| Cable insulation diameter range | 28.9 mm - 59.0 mm | |
| Connector cross-section range | 400 mm ² - 1000 mm ² | |
| Maximum system voltage | 42 kV | |
| Continuous current rating | 1250A* | |
| Basic impulse level | 200 kV | |
| Partial discharge at 2 U _O | < 2 pC | |
| AC voltage withstand, 5 min. | 93.5 kV | |
| DC voltage withstand, 15 min. | 125 kV | |
| Thermal short circuit, 1 s | 74.5 kA | |
| Thermal short circuit, 3 s | 43 kA | |
| Dynamic short circuit | 125 kA | |
| | | |

The adapters meet the international CENELEC HD 629.1 S2 specification.

| SELECTION TABLE | | | | | | |
|---|-------------------------------|------|--|--|--|--|
| Cross Section (mm ²) | Diameter Core Insulation (mm) | | Reference Number Conductor Material | | | |
| | min | max | AL or CU | | | |
| SCREENED SEPARABLE CONNECTION SYSTEM 12 kV WITH MECHANICAL LUGS | | | | | | |
| 400 | 28.9 | 36.4 | RSTI-CC-3951 | | | |
| 500 | 28.9 | 36.4 | RSTI-CC-3952 | | | |
| 630 | 34.0 | 45.4 | RSTI-CC-3953 | | | |
| 800 | 34.0 | 45.4 | RSTI-CC-3954 | | | |
| 1000 | 39.1 | 59.0 | RSTI-CC-3955 | | | |
| SCREENED SEPARABLE CONNECTION SYSTEM 24 kV WITH MECHANICAL LUGS | | | | | | |
| 400 | 34.0 | 45.4 | RSTI-CC-5951 | | | |
| 500 - 630 | 34.0 | 45.4 | RSTI-CC-5952 | | | |
| 630 | 39.1 | 59.0 | RSTI-CC-5953 | | | |
| 800 | 39.1 | 59.0 | RSTI-CC-5954 | | | |
| 1000 | 39.1 | 59.0 | RSTI-CC-5955 | | | |
| SCREENED SEPARABLE CONNECTION SYSTEM 36 kV WITH MECHANICAL LUGS | | | | | | |
| 400 | 34.0 | 45.4 | RSTI-CC-6951 | | | |
| 500 - 630 | 39.1 | 59.0 | RSTI-CC-6952 | | | |
| 800 | 39.1 | 59.0 | RSTI-CC-6953 | | | |

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