

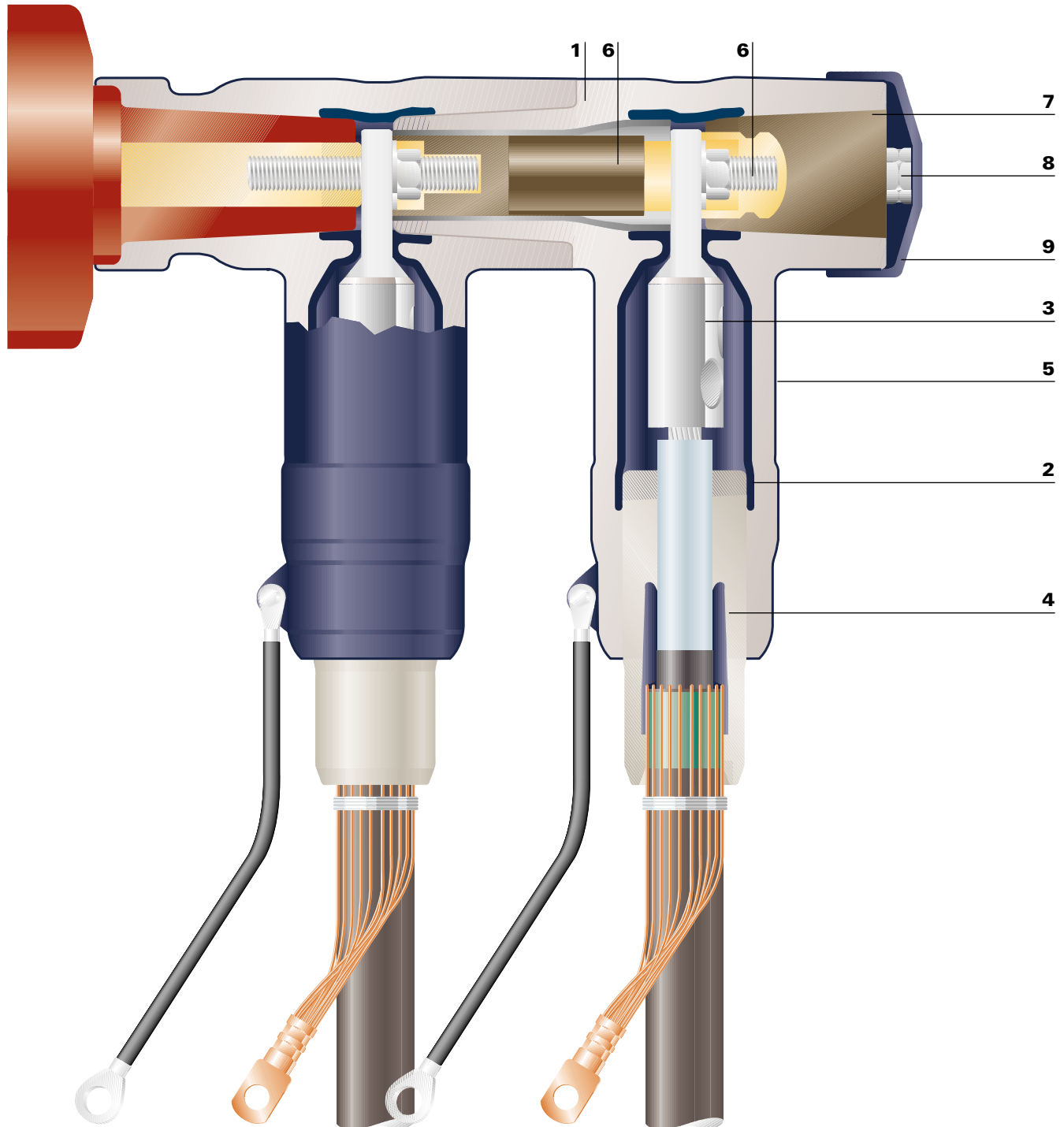
RSTI-CC

Screened, separable, coupling connection system 630 A up to 36 (42) kV

Features

- The screened coupling connector is designed to mate with the rear end of the base screened connector system RSTI designed for 36 (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.
- The combination of screened connector and coupling connector fits 630 A bushings as specified by CENELEC HD 506 S1, DIN 47636, 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 35 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.



**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 compression or mechanical lug, prevents corona at rated voltage.

3 Compression or mechanical lugs

Specially designed DIN compression lugs, as well as tinned, 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 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.

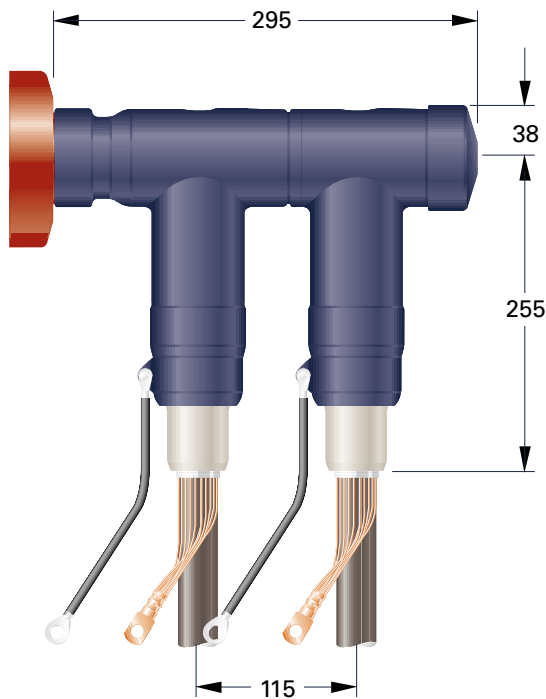
RSTI-CC Applications

Double connection

Items required for 3 phases:

1 x RSTI-66xx (Basic kit)

1 x RSTI-CC-66xx (Coupling connector kit)



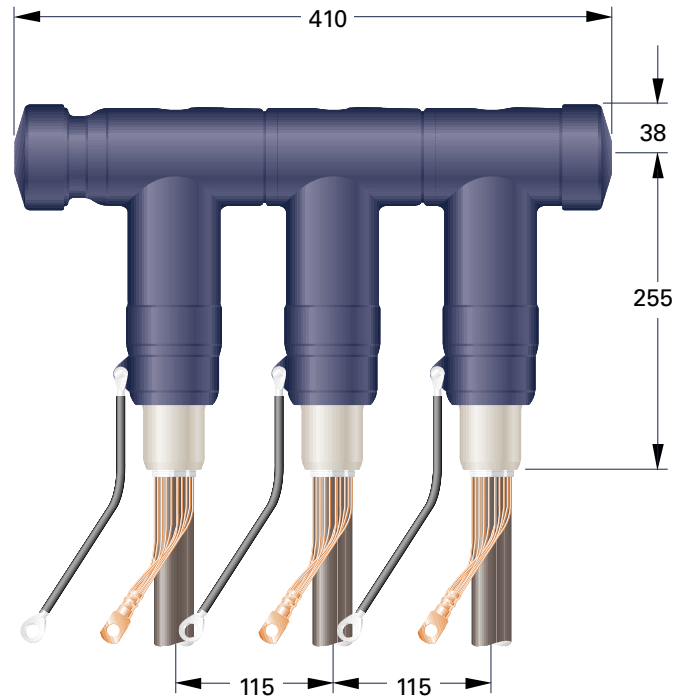
Single core branch off

Items required for 3 phases:

1 x RSTI-66xx (Basic kit)

1 x RSTI-56TP (Terminating plug kit)

2 x RSTI-CC-66xx (Coupling connector kit)



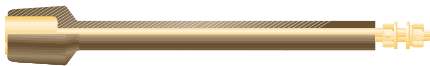
Note:

All applications shown in the brochure need to have a mechanical support meeting the requirements for dynamic short circuit.

RSTI-CC Accessories

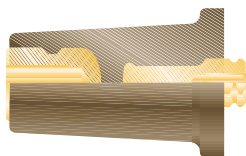
Test rod

Ref. no.: RSTI-56TR; Length: 310 mm
RSTI-56TRL; Length: 460 mm
RSTI-56TRA; Kit includes
2 short and 1 long testrod



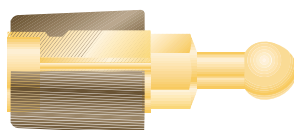
Terminating plug

Ref. no.: RSTI-56TP



Earthing adapter

Ref. no.: RSTI-56EA20; Ball diameter: 20 mm
RSTI-56EA25; Ball diameter: 25 mm



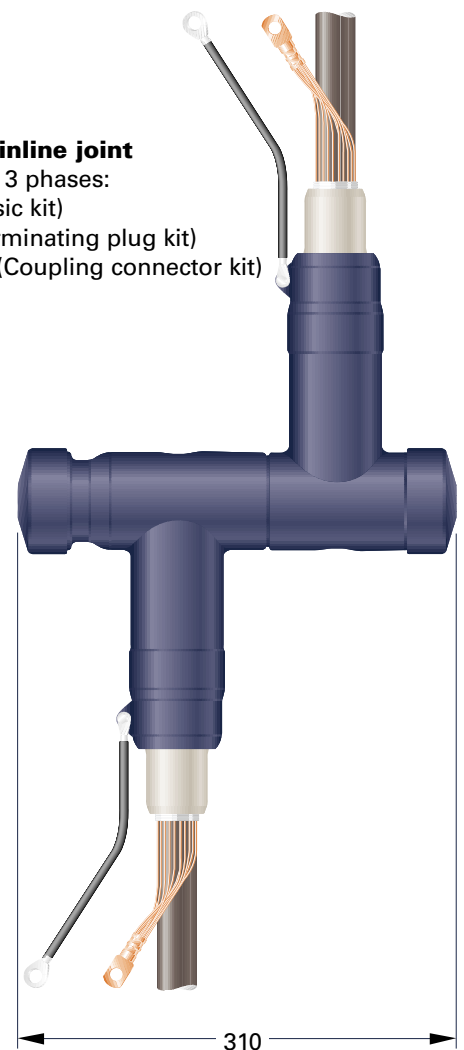
Disconnectable inline joint

Items required for 3 phases:

1 x RSTI-66xx (Basic kit)

1 x RSTI-56TP (Terminating plug kit)

1 x RSTI-CC-66xx (Coupling connector kit)



Technical data	Cable insulation diameter range	22.4 - 40.0 mm
	Connector cross-section range	35 - 300 mm ²
	Maximum system voltage	36 (42) kV
	Continuous current rating	630 A
	Basic impulse level	170 (200) kV
	Partial discharge at 2 U ₀	< 5 pC
	AC voltage withstand, 5 min	81 (93.5) kV
	DC voltage withstand, 15 min	108 (125) kV
	Thermal short circuit, 1 s	33 kA
	Dynamic short circuit	84 kA

The adapters meet the international CENELEC HD 629.1 S1 specification.

Selection table
Screened separable coupling connection system 36 kV with DIN compression lugs

Cross Section mm²	Diameter Core insulation		Reference number Conductor material	
	min mm	max mm	Al	Cu
50	22.4 -	33.6	RSTI-CC-6611	RSTI-CC-6621
70	22.4 -	33.6	RSTI-CC-6612	RSTI-CC-6622
95	22.4 -	33.6	RSTI-CC-6613	RSTI-CC-6623
120	22.4 -	33.6	RSTI-CC-6614	RSTI-CC-6624
150	22.4 -	33.6	RSTI-CC-6615	RSTI-CC-6625
185	28.9 -	40.0	RSTI-CC-6616	RSTI-CC-6626
240	28.9 -	40.0	RSTI-CC-6617	RSTI-CC-6627
300	28.9 -	40.0	RSTI-CC-6618	RSTI-CC-6628

Kits including deep indent compression lugs on request.
Contact your local sales representative.

Screened separable coupling connection system 36 kV with mechanical lugs and shear bolts

Cross Section mm²	Diameter Core insulation		Reference number Conductor material Al or Cu
	min mm	max mm	
35 - 95	22.4 -	33.6	RSTI-CC-6651
95 - 120	22.4 -	33.6	RSTI-CC-6652
150 - 240	28.9 -	40.0	RSTI-CC-6653
300	28.9 -	40.0	RSTI-CC-6655

Kits for 3-core applications on request.
Contact your local sales representative.

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct and reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance of any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for these products is set forth in our standard terms and conditions of sale. ALR, AMP, AXICOM, B&H, BOWTHORPE EMP, CROMPTON INSTRUMENTS, DORMAN SMITH, DULMISON, GURO, HELLSTERN, LA PRAIRIE, MORLYNN, RAYCHEM, and SIMEL are trademarks.



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