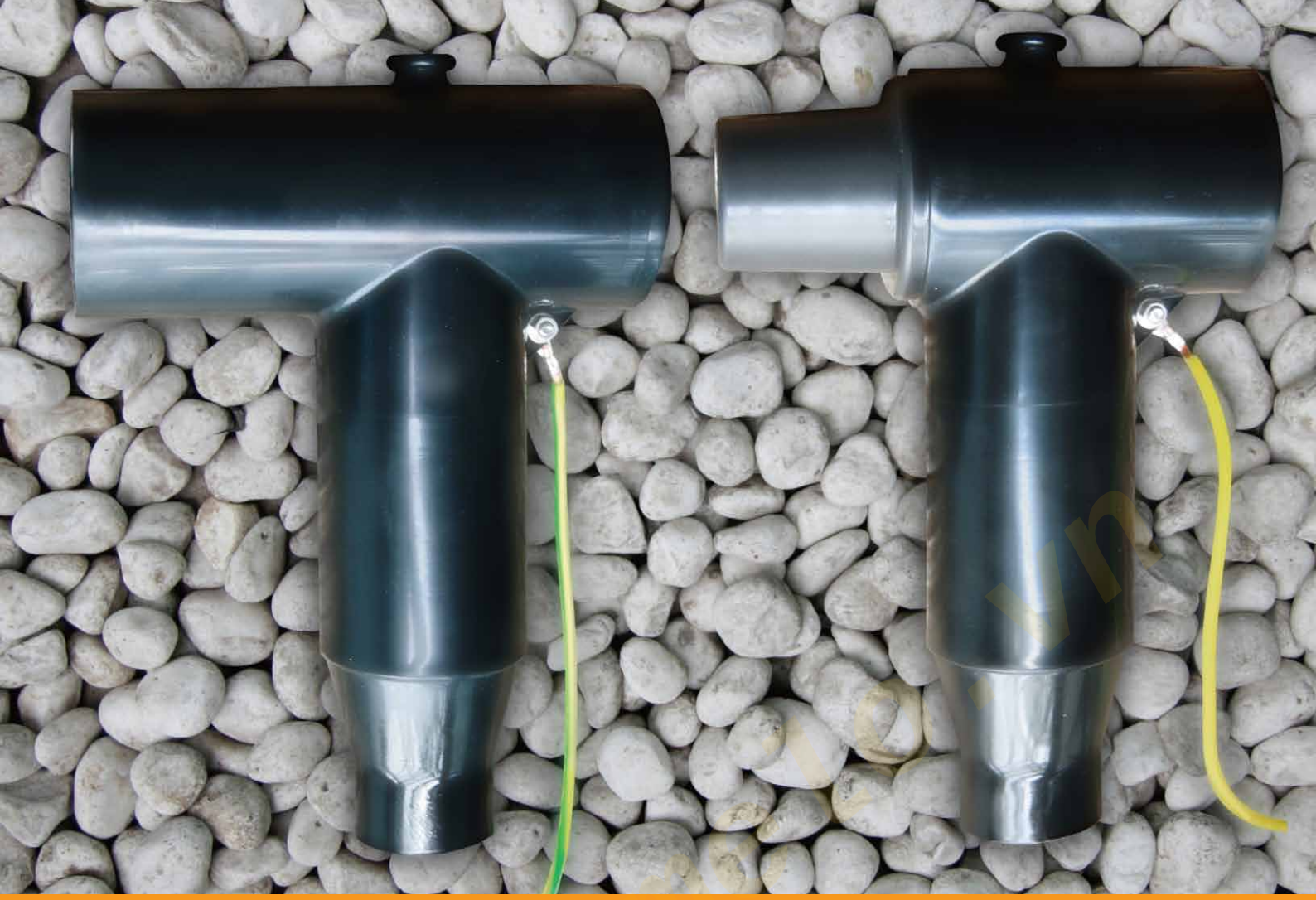


# ELBC-824 Screened Separable Connector up to 24kV, 800A

TE connectivity ENERGY

## Feature

- ELBC screened separable connector is made of high modified EPDM rubber which ensures the high dielectric strength, elongation at break
- A thick conductive EPDM jacket protects the connection system against unintentional contact
- Unique design make it fully shielded and submersible while matched with the right busing or plug.
- Unique design ensure the ELBC rated current up to 800A with the design fit the 630/1250 A bushings type “C” as specified by EN50180 and EN50181
- The screened separable connector exceeds CENELEC HD 629.1 S2 requirements, which includes BS, VDE and other international specifications
- The compact design supports the use of double “T” connections inside cable cabinets
- A wide application range could covers cable cross-section from 35sqmm to 400sqmm
- Conductor lug with mechanical or compression type
- Easily accessible back plug with capacitive test point
- Few accessories required for system test, double “T” and earth connection
- Complete kit including lugs facilitates installation and storage
- 100% routine test for PD & AC

ELBC-824 screened separble connector is used for the connection between the XLPE cable and electric equipments ( RMU, SECTOR, Transformer or motor, eg) using CENELEC bushings type “C” specified for 630/1250 A up to 24 kV

Made of high modified EPDM rubber, ELBC is fully screened and fully submersible, suit for indoor and outdoor installation.

For a wide application range, the design incorporate one body and five stress cone to cover all cross-sections from 35sqmm to 400sqmm. The compact constructure and cut-back dimension are designed to take up the minimun space in the cable cabinet.

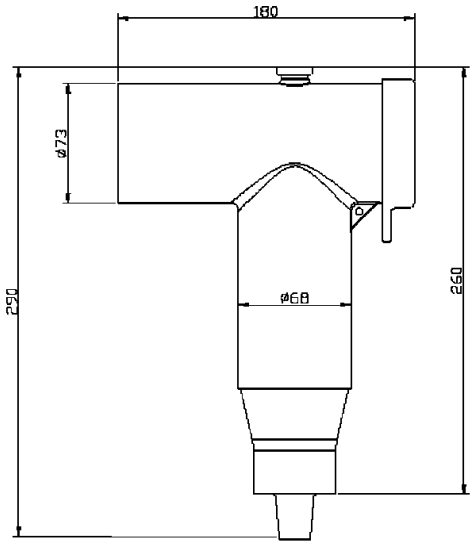
The test point is embeded in the back plug for determining if the circuit energised, and is protected by a screened cap.

Mechanical lug and compression lug is ready for customer ordering. Both of them could cover the cable cross-section from 35sqmm to 400sqmm

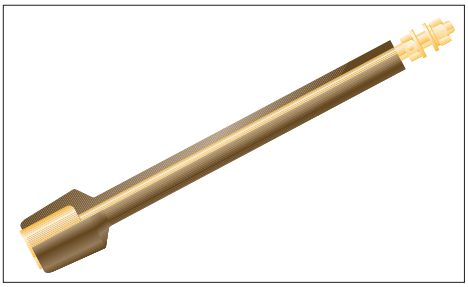
Pre-engineered design on the mechanical lug optimize the electric contact and minimize the resistance between the connector and conductor as well as the benefit for the operator to easy installation with standard socket spanner and no additional space needed

The separable connector is easily connected with the bushing and junction according to EN50180/50181 DIN47636,etc

Be compatible with RSTI-58 and can use test rod, earth plug and front terminal

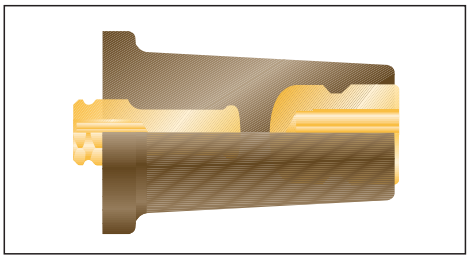


## Accessories



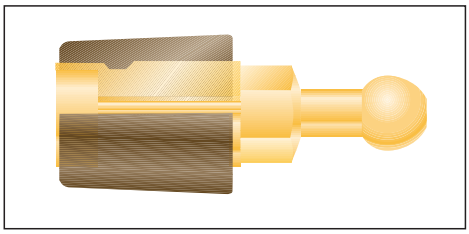
**Test Rod**

| | |
|---|---|
| RSTI-68TR | 310 mm |
| RSTI-68TRL | 460 mm |
| RSTI-68TRA | Kit including 2 short and 1long rods |



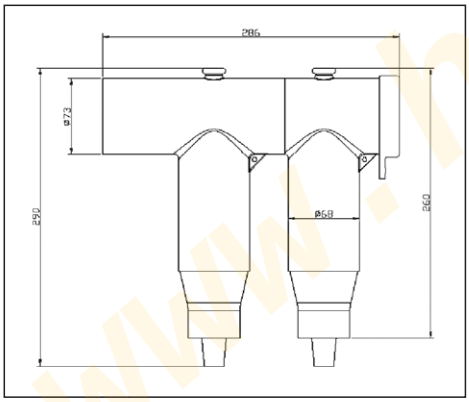
**Terminal Plug**

RSTI-68TP



**Earthing Adapter**

| | |
|---|---|
| RSTI-68EA20 | Ball Diameter: 20 mm |
| RSTI-68EA25 | Ball Diameter: 25 mm |

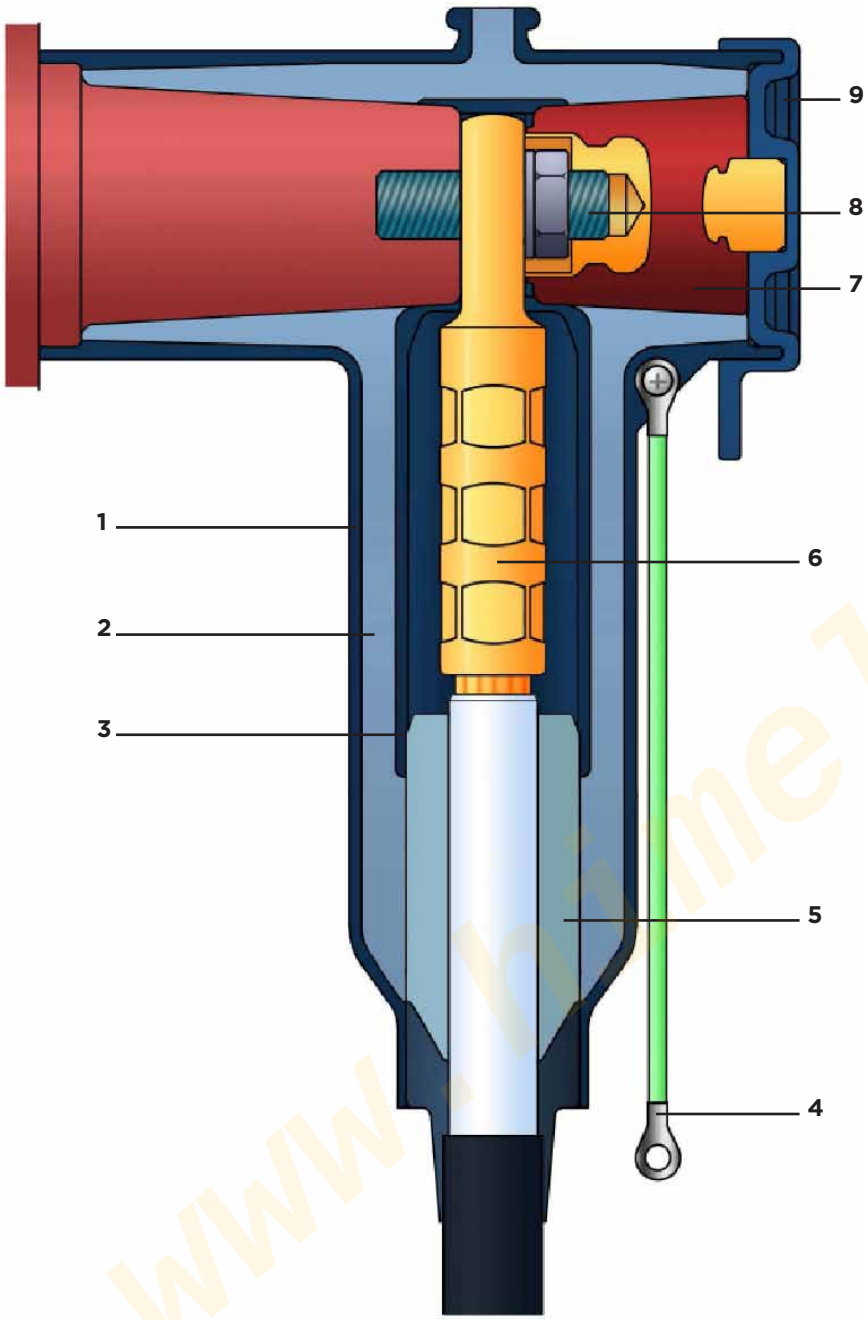



**Single Connection**

| | |
|---|---|
| Material for three phases | 1* ELBC-824-xxxx (kit) |

**Live end Seal**

| | |
|---|---|
| Material for three phases | 1* ELBC-824-xxxx |
| | 1* RSTI 68TP |




**1, Outer conductive layer**
Molded outer conductive layer is made of EPDM and provide a safety touch

**2, Insulated layer**
Unique EPDM material performance a high quality and reliability

**3, Farady Cage**
Optimized faraday cage around the compression ormechanical lug, prevents corona at rated voltage

**4, Earthing Eye and Grouding kit**
Provides a connection point for earthing the screen

**5, Stress Cone**
Relieves electrical stress at the point where the cable screen is cut

**6, Compression and mechanical lug**
Specially designed DIN (see detail below) and deep indent compression lugs, as well as mechanical lugs with shear bolts for connecting either aluminum or copper conductor cables

**7, Back Plug**
Removable rear plug with capacitive test point

**8, Threaded Pin Kit**
A threaded pin together with a spring washer and hex nut ensure a high-performance elec trical and mechanical contact with the bushing

**9, End Cap**
Electrical screen and protection of the rear end of the separable connector

## Tech Data:

| | | |
|---|---|---|
| Cable Insulation Range | 15.5 - 37 mm | |
| Cable cross-section range | 35 - 400 $mm^2$ | |
| Max. Rated Voltage | 24 | kV |
| Rated Current | 800 | A |
| Basic Impulse Level | 125 | kV |
| 2U0 PD | <5 | pC |
| AC withstand, 5min | 54 | kV |
| Thermal Short 1s | 54 | kA |
| Dynamic Short, 1s | 85 | kA |

**meet the international CENELEC HD 629.1 S2 specification and GB 12706.4:2008**

## Separable Connector Selection table

### 12/20(24)kV Single Core, Copper conductor with compression copper lug

| Reference Ordering # | insulation Ø | Cross Section |
|---|---|---|
| ELBC-824-35C-SC | 18~23 mm | 35sqmm |
| ELBC-824-50C-SC | 18~23 mm | 50sqmm |
| ELBC-824-70C-SC | 18~23 mm | 70sqmm |
| ELBC-824-95C-SC | 22~27 mm | 95sqmm |
| ELBC-824-120C-SC | 22~27 mm | 120sqmm |
| ELBC-824-150C-SC | 26~32 mm | 150sqmm |
| ELBC-824-185C-SC | 26~32 mm | 185sqmm |
| ELBC-824-240C-SC | 26~32 mm | 240sqmm |
| ELBC-824-300C-SC | 31~37 mm | 300sqmm |
| ELBC-824-400C-SC | 31~37 mm | 400sqmm |

| Reference Ordering # | insulation Ø | Cross Section |
|---|---|---|
| ELBC-CC-824-35C-SC | 18~23 mm | 35sqmm |
| ELBC-CC-824-50C-SC | 18~23 mm | 50sqmm |
| ELBC-CC-824-70C-SC | 18~23 mm | 70sqmm |
| ELBC-CC-824-95C-SC | 22~27 mm | 95sqmm |
| ELBC-CC-824-120C-SC | 22~27 mm | 120sqmm |
| ELBC-CC-824-150C-SC | 26~32 mm | 150sqmm |
| ELBC-CC-824-185C-SC | 26~32 mm | 185sqmm |
| ELBC-CC-824-240C-SC | 26~32 mm | 240sqmm |
| ELBC-CC-824-300C-SC | 31~37 mm | 300sqmm |
| ELBC-CC-824-400C-SC | 31~37 mm | 400sqmm |

### 12/20(24)kV Single Core with mechanical lug

| Reference Ordering # | insulation Ø | Cross Section |
|---|---|---|
| ELBC-824-3570-SC | 18~23 mm | 35~70sqmm |
| ELBC-824-9512-SC | 22~27 mm | 95~120sqmm |
| ELBC-824-1524-SC | 26~32 mm | 150~240sqmm |
| ELBC-824-3040-SC | 31~37 mm | 300~400sqmm |

| Reference Ordering # | insulation Ø | Cross Section |
|---|---|---|
| ELBC-CC-824-3570-SC | 18~23 mm | 35~70sqmm |
| ELBC-CC-824-9512-SC | 22~27 mm | 95~120sqmm |
| ELBC-CC-824-1524-SC | 26~32 mm | 150~240sqmm |
| ELBC-CC-824-3040-SC | 31~37 mm | 300~400sqmm |

**TE Energy – innovative andeconomical solutionsfor the electricalpower industry: cableaccessories, connectors & fittings, insulators & insulation, surge arresters, switching equipment, lightingcontrols, power measurement andcontrol.**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