



SCREENED SEPARABLE CONNECTOR (ELBC-824) UP TO 24 kV 800A

KEY FEATURES

- Thin wall screen permanently bonded onto the EPDM insulation, protects the connection system against accidental contact.
- Unique design makes it fully shielded and submersible when matched with the right bushing or plug
- Compact design supports the use of double “T” connections inside cable cabinets
- Wide application range covers cable cross-sections from 35 mm² to 400 mm²
- Easy access back plug with capacitive test point.

TE Connectivity's (TE) Raychem ELBC-824 screened separable connectors are used to connect XLPE cables to electrical equipment (e.g. RMU, switchgear, transformer, etc.), using CENELEC bushing type “C”, specified up to 24kV.

Made of a highly modified EPDM rubber, ELBC is fully screened and submersible, suitable for indoor and outdoor installations. For a wide range of applications, the design incorporates one body and five stress cones to cover cross-sections from 35 mm² to 400 mm². The overall and cut-back dimensions are designed to take up minimum space in the terminal box. ELBC elbow connectors are equipped with a capacitive test point for determining whether the circuit is energised. This test point is protected by a conductive cap.

ELBC-824 connectors are compatible for use with both mechanical and compression lugs which can be ordered separately. Pre-engineered design of the mechanical lug optimizes contact resistance between the connector and conductor. Installation is user-friendly, requiring only a standard socket spanner and no additional space. The separable connector is easily connected with the bushing and junction that comply to EN50180/50181 DIN47636. Accessories such as test rods, earth plugs and front terminals are compatible for use with the TE range of RSTI and ELBC separable connectors.

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.

Screened Separable Connector ELBC-824



TE's Raychem ELBC has rated current up to 800A with the design fit the A bushings type "C" as specified by EN50180 and EN50181. The screened separable connector meets GB/T 12706.4 and IEC 60502.4 requirements.

PRODUCT SELECTION INFORMATION				TECHNICAL INFORMATION		
Front Connector	Rear Connector	Insulation Ø (mm)	Cross Section (mm ²)	Cable Insulation Range	15.5 - 37 mm	
12/20 (24) kV single-core, with compression lug				Cable cross-section range	35 - 400 mm ²	
ELBC-824-35C-SC	ELBC-CC-824-35C-SC	18.0 - 23	35	Max. Rated Voltage	24 kV	
ELBC-824-50C-SC	ELBC-CC-824-50C-SC	18.0 - 23	50	Rated Current	800 A	
ELBC-824-70C-SC	ELBC-CC-824-70C-SC	18.0 - 23	70	Basic Impulse Level	125 kV	
ELBC-824-95C-SC	ELBC-CC-824-95C-SC	22.0 - 27	95	2U0 PD	<2 pC	
ELBC-824-120C-SC	ELBC-CC-824-120C-SC	22.0 - 27	120	AC withstand, 5min	54 kV	
ELBC-824-150C-SC	ELBC-CC-824-150C-SC	22.0 - 27	150	Thermal Short 1s	54 kA	
ELBC-824-185C-SC	ELBC-CC-824-185C-SC	26.0 - 32	185	Dynamic Short, 1s	85 kA	
ELBC-824-240C-SC	ELBC-CC-824-240C-SC	26.0 - 32	240			
ELBC-824-300C-SC	ELBC-CC-824-300C-SC	31.0 - 37	300			
ELBC-824-400C-SC	ELBC-CC-824-400C-SC	31.0 - 37	400			
12/20 (24) kV single-core, with mechanical lug						
ELBC-824-3570-SC	ELBC-CC-824-3570-SC	18.0 - 23	35 - 70			
ELBC-824-9512-SC	ELBC-CC-824-9512-SC	22.0 - 27	95 - 120			
ELBC-824-1524-SC	ELBC-CC-824-1524-SC	26.0 - 32	150 - 240			
ELBC-824-3040-SC	ELBC-CC-824-3040-SC	31.0 - 37	300 - 400			
12/20 (24) kV, 3-core cable sets, with heat shrinkable trifurcation kits						
ELBC-824-3570	ELBC-CC-824-3570	18.0 - 23	35 - 70			
ELBC-824-9512	ELBC-CC-824-9512	22.0 - 27	95 - 120			
ELBC-824-1524	ELBC-CC-824-1524	26.0 - 32	150 - 240			
ELBC-824-3040	ELBC-CC-824-3040	31.0 - 37	300 - 400			
12/20 (24) kV, 3-core cable sets, with cold shrinkable trifurcation kits						
ELBC-824-3570-CTR	ELBC-CC-824-3570-CTR	18.0 - 23	35 - 70			
ELBC-824-9512-CTR	ELBC-CC-824-9512-CTR	22.0 - 27	95 - 120			
ELBC-824-1524-CTR	ELBC-CC-824-1524-CTR	26.0 - 32	150 - 240			
ELBC-824-3040-CTR	ELBC-CC-824-3040-CTR	31.0 - 37	300 - 400			
				ACCESSORIES		
				Test Rod		
				RSTI-68TR	310 mm	
				RSTI-68TRL	460 mm	
				RSTI-68TRA	Kit including 2 short and 1 long rods	
				Terminal Plug		
				RSTI-68TP		
				Earthing Adapter		
				RSTI-68EA20	Ball Diameter: 20 mm	
				RSTI-68EA25	Ball Diameter: 25 mm	
				Live and Seal		
				Material for three phases	1* ELBC-824-XXXX 1* RSTI 68TP	
				TEST REPORT		
				Reference No.	Voltage (kV)	Specification
				2011JDL569	24	GB/T 12706.4-2008 IEC 60502.4-2005"

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