



SCREENED SEPARABLE CONNECTOR (ELBC-810) UP TO 17.5 kV 800 A

KEY FEATURES

- Thin wall screen permanently bonded onto EPDM insulation, protects connection system against accidental contact
- Unique design is 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 25 mm² to 500 mm²
- Compatible for use with mechanical or compression type lugs.
- Easy access back plug with capacitive test point.

TE Connectivity's (TE) Raychem ELBC-810 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 17.5kV.

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 25 mm² to 500 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-810 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-810

ELBC has a current rating up to 800A. Designed to fit type "C" bushings as specified by EN50180 and EN50181. The screened separable connector meets GB/T 12706.4 and IEC 60502.4 requirements.



TECHNICAL INFORMATION

Cable insulation range	15.5 - 37 mm
Cable cross-section range	25 - 500 mm ²
Max. Rated voltage	17.5 kV
Rated current	800 A
2U _o PD	< 2 pC
AC withstand, 5min	39 kV
Thermal short, 1s	54 kA
Dynamic short, 1s	85 kA
Impulse withstand	95 kV

PRODUCT SELECTION INFORMATION

Front Connector	Rear Connector	Insulation ϕ (mm)	Cross Section (mm ²)
6/10(12) kV and 8.7/15(17.5) kV single-core, with compression lug			
ELBC-810-25C-SC	ELBC-CC-810-25C-SC	15,5 - 19	25
ELBC-810-35C-SC	ELBC-CC-810-35C-SC	15,5 - 19	35
ELBC-810-50C-SC	ELBC-CC-810-50C-SC	15,5 - 19	50
ELBC-810-70C-SC	ELBC-CC-810-70C-SC	18,0 - 23	70
ELBC-810-95C-SC	ELBC-CC-810-95C-SC	18,0 - 23	95
ELBC-810-120C-SC	ELBC-CC-810-120C-SC	22,0 - 27	120
ELBC-810-150C-SC	ELBC-CC-810-150C-SC	22,0 - 27	150
ELBC-810-185C-SC	ELBC-CC-810-185C-SC	22,0 - 27	185
ELBC-810-240C-SC	ELBC-CC-810-240C-SC	26,0 - 32	240
ELBC-810-300C-SC	ELBC-CC-810-300C-SC	26,0 - 32	300
ELBC-810-400C-SC	ELBC-CC-810-400C-SC	31,0 - 37	400
ELBC-810-500C-SC	ELBC-CC-810-500C-SC	31,0 - 37	500
6/10(12) kV and 8.7/15(17.5) kV single-core, with mechanical lug			
ELBC-810-2550-SC	ELBC-CC-810-2550-SC	15,5 - 19	25 - 50
ELBC-810-7095-SC	ELBC-CC-810-7095-SC	18,0 - 23	70 - 95
ELBC-810-1218-SC	ELBC-CC-810-1218-SC	22,0 - 27	120 - 185
ELBC-810-2430-SC	ELBC-CC-810-2430-SC	26,0 - 32	240 - 300
ELBC-810-400-SC	ELBC-CC-810-400-SC	31,0 - 37	400
6/10(12) kV and 8.7/15(17.5) kV, 3-core cable sets, with heat shrinkable trifurcation kits			
ELBC-810-2550	ELBC-CC-810-2550	15,5 - 19	25 - 50
ELBC-810-7095	ELBC-CC-810-7095	18,0 - 23	70 - 95
ELBC-810-1218	ELBC-CC-810-1218	22,0 - 27	120 - 185
ELBC-810-2430	ELBC-CC-810-2430	26,0 - 32	240 - 300
6/10(12) kV and 8.7/15(17.5) kV, 3-core cable sets, with cold shrinkable trifurcation kits			
ELBC-810-2550-CTR	ELBC-CC-810-2550-CTR	15,5 - 19	25 - 50
ELBC-810-7095-CTR	ELBC-CC-810-7095-CTR	18,0 - 23	70 - 95
ELBC-810-1218-CTR	ELBC-CC-810-1218-CTR	22,0 - 27	120 - 185
ELBC-810-2430-CTR	ELBC-CC-810-2430-CTR	26,0 - 32	240 - 300
ELBC-810-400-CTR	ELBC-CC-810-400-CTR	31,0 - 37	400

TEST REPORT

Reference Number	Voltage (kV)	Specification
2010JDL441	17.5	GB/T 12706.4-2008 IEC 60502.4-2005"

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FOR MORE INFORMATION: TE Technical Support Centers

USA:	+ 1 800 327 6996
France:	+ 33 380 583 200
UK:	+ 44 0870 870 7500
Germany:	+ 49 896 089 903
Spain:	+ 34 916 630 400
Benelux:	+ 32 16 351 731
Canada:	+ 1 (905) 475-6222
Mexico:	+ 52 (0) 55-1106-0800
Latin/S. America:	+ 54 (0) 11-4733-2200
China:	+ 86 (0) 400-820-6015