

## TE Raychem ELBC-SA Screened, Separable Surge Arrester up to 24kV

The screened gapless surge arrester is a “T”-shaped product. It is designed for direct connection onto outer cone bushings in accordance to EN50180 or EN50181 with interface type “C” or for parallel connection mating to the rear entry of the base screened connector system ELBC-8xx designed for system voltage up to 24 kV.

The insulation of the screened surge arrester is made of a highly modified EPDM. A thin walled screen is permanently bonded onto the insulation and protects the connection system against unintentional contact.

Complete kit including screened surge arrester, threaded pin and ground lead for three phases facilitates installation and storage.

### Technical Data

<b>Voltage Class (kV)</b>	<b>12.0</b>	<b>24.0</b>
Rated voltage $U_R$	17kV	26kV
Continuous operating voltage $U_c$	13.6kV	20.8kV
Partial discharge at $1.05 \cdot U_c$	< 11pC	< 20pC
DC Reference voltage at 1mA	$\geq 24$ kV	$\geq 37$ kV
Rated discharge current (Peak)	5kA	5kA
Switching current impulse (Peak)	-	0.5kA
Power-frequency reference current (Peak)	-	1mA
Power-frequency reference voltage	$\geq 17$ kV	$\geq 26$ kV
Residual voltage (peak) at rated discharge current	$\leq 45$ kV	$\leq 66$ kV
Residual voltage (peak) at switching current impulse	$\leq 38.3$ kV	$\leq 56$ kV
Residual voltage (peak) at steep lightning current impulse	$\leq 51.8$ kV	$\leq 74$ kV
Long-duration current impulse (2ms, 18 times)	150A	150A
Withstand voltage at high current impulse (4/10 $\mu$ s)	65kV	65kV
Lightning impulse withstand voltage on housing insulation (1.2/50 $\mu$ s)	95kV	125kV
AC withstand voltage on housing insulation	34kV	40kV
Leakage current at 0.75 DC reference voltage	< 50 $\mu$ A	< 50 $\mu$ A

### Ordering Information

Voltage Class (kV)	Reference Number Single connection	Reference Number Parallel connection
12.0	ELBC-810-SA1745	ELBC-CC-810-SA1745
24.0	ELBC-824-SA2666	ELBC-CC-824-SA2666

