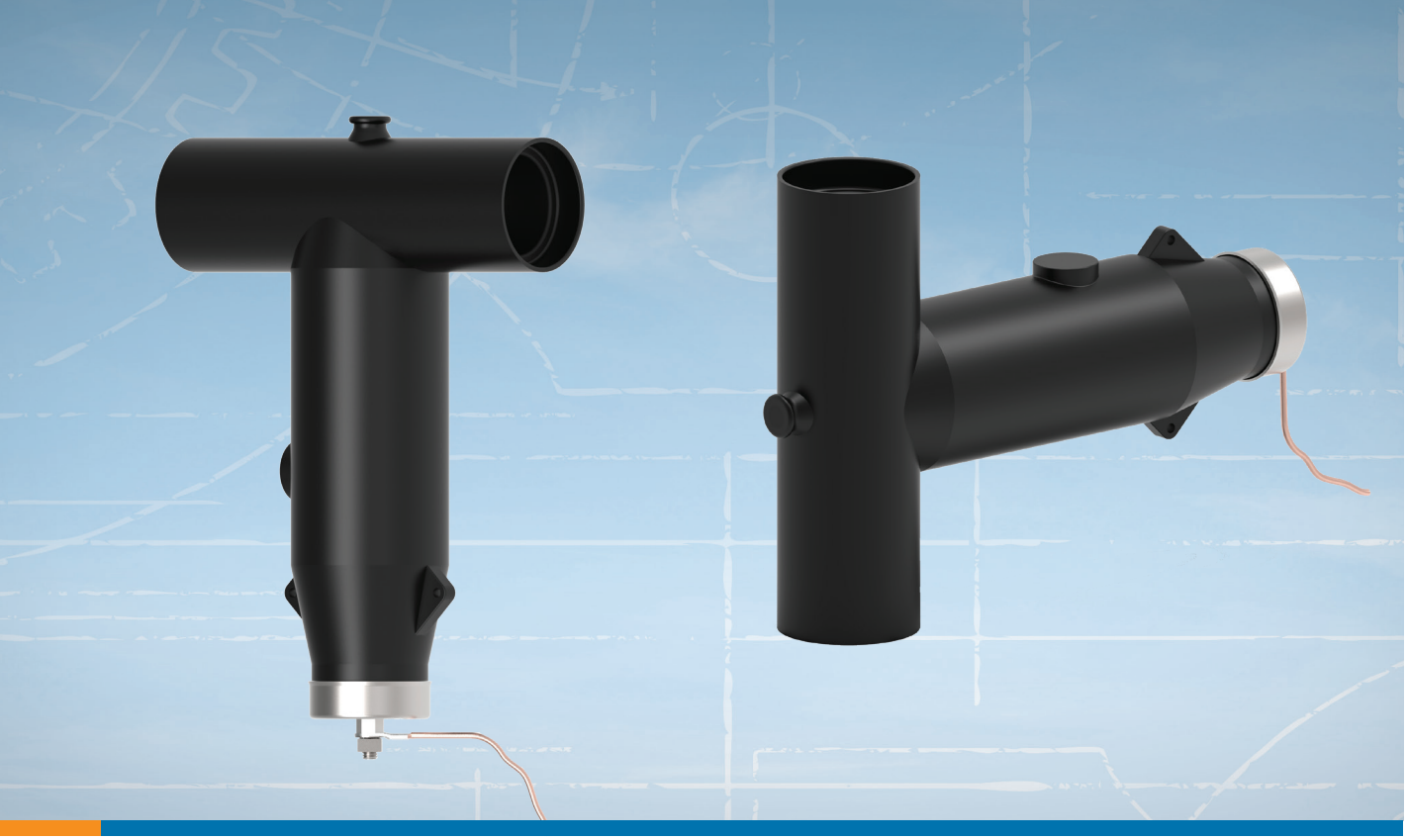


T-BODY ELBOW SURGE ARRESTERS

35 kV, 600A

KEY FEATURES

- The 600A interface bolts directly to a bushing, saving space and eliminating the need for adaptors
- All MOV elements and end fittings are integrated in a single piece with no glued interfaces
- The design is void and gap free ensuring peak performance under the harshest conditions
- Tested in accordance with the dead front surge arrester failure mode test for having safe and predictable failure characteristics
- Large diameter MOV elements provide high energy handling capability

TE Connectivity's (TE) Raychem T-Body Elbow Surge Arresters ELB-35 are designed to protect underground cables and medium voltage apparatus from voltage surges due to lightning and switching transients. They combine gapless metal oxide varistor technology in a pre-molded 600A T-body elbow to provide overvoltage protection in a fully shielded and submersible device.

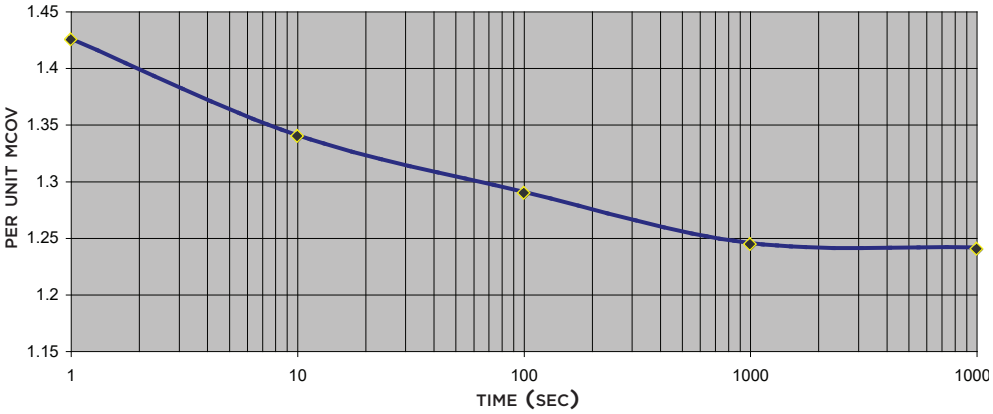
The elbow surge arresters have a 600A interface which is compatible with any 600A bushings that meet IEEE standard 386. Installation is achieved by bolting the elbow surge arresters directly to the bushings. The surge arresters are installed by following the same procedure as standard 35 kV 600A elbows and eliminate the need for bushing extenders and 200A load break interface surge arresters.

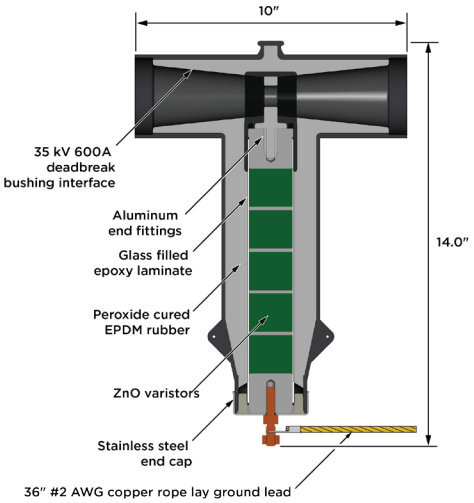
The design incorporates an epoxy fiber module which integrates all MOV components in a single unit.

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

TE's Raychem T-Body Elbow Surge Arresters are qualified to the latest revision of IEEE C62.11 (2005) and IEEE 386 (2006).

ELBOW SURGE ARRESTER TEMPORARY OVERVOLTAGE CURVE (TOV), 85C





PERFORMANCE CHARACTERISTICS	
Surge Arrester Type	**Normal Duty**
High Current Short Duration	65 kA, 4 x 10µsec
Low Current Long Duration	75 A, 2000µsec
Duty Cycle	10 kA, 8 x 20µsec
Energy Absorption Rating	5.1 kJ/kV MCOV

PRODUCTION TESTS		
MOV Blocks	**MOV Module**	**Elbow Surge Arrester Assembly**
Residual voltage	Reference voltage	
Reference voltage	Watts loss	Partial discharge
Leakage current	Partial discharge	Periodic x-ray analysis
Physical examination		
High current impulse (batch)		
Aging (batch)		

Following each of the preceding tests the surge arrester demonstrates thermal recovery at MCOV.

PRODUCT SELECTION INFORMATION						
MOV Blocks	**Duty Cycle Rating (kV/rms)**	**MCOV (kVrms)**	**Maximum Discharge Voltage (kV crest) 8 x 20 microsecond current wave**			
			1.5 kA	**5 kA**	**10 kA**	**20 kA**
ELB-35-600 ARSTR 27	27	22.0	65.6	72.3	78.2	85.7
ELB-35-600 ARSTR 30	30	24.4	72.6	79.9	86.5	94.8
ELB-35-600 ARSTR 33	33	26.8	80.1	88.2	95.4	104.5
ELB-35-600 ARSTR 36	36	29.0	87.1	95.9	103.8	113.8

RELATED TEST REPORTS

EDR-55506, EDR-5489

te.com/energy

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