

RAYCHEM SURGE ARRESTER CONNECTION COVER (BCAC)

WILDLIFE AND ASSET PROTECTION PRODUCTS

KEY FEATURES

- UV and weather resistant material
- Halogen Free and highly anti tracking
- Specially designed for use on Surge Arresters
- Easily removed and reused for inspection
- REACH and RoHS Compliant
- Rugged, non-tracking, UV-resistant polymer and flame-resistant

TE Connectivity's (TE) Raychem BCAC-AR surge arrester covers protect birds and animals from causing unwanted outages on polymer overhead distribution style arresters.

The BCAC-AR cover is a unique design that improves the level of protection by covering the first skirt of the arrester. The wing attachments provide increased dielectric performance under wet and dry conditions. Three different cover sizes are available and are designed to fit TE, Cooper and Hubble type arresters.

The BCAC-AR arrester cover is quick and easy to install in the field. No disconnecting of the arrester is required. The cap is attached to the stud on top of the arrester as well as the conductor which insures retention even in high winds. The cap is versatile and is designed to install on either one or both sides of the connection. The "saloon door" design of the wings allows easy installation onto the conductors while providing superior holding force.

Superior high-voltage outdoor materials are used in the BCAC-AR cover design. The rugged, non-tracking, UV-resistant polymer ensures long-term performance even in the most extreme environmental conditions.

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

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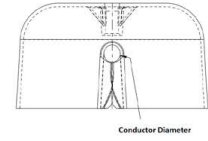
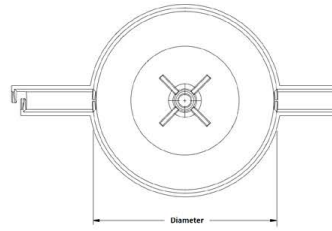
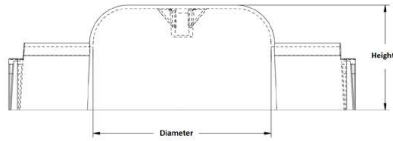
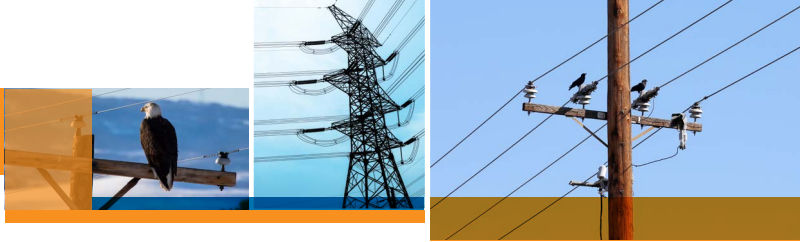


Wildlife and Asset Protection Material Performance Attributes:	TE Raychem Standard	TE Raychem VO+
Tracking and Erosion Resistance (TERT), per ASTM D2303 or IEC 60587 STEP test method, (with abrasion)		
This test predicts behavior under contamination and leakage current stress. The sample is abraded to represent testing on an aged sample.	>300min	>180min
UV Performance, per ASTM G154		
This test assesses the damage from UV exposure in intense environments, and provides a proxy for 35+ life expectancy.	5,000hr	5,000hr*
Thermal Aging Performance		
Thermal Index IEC 60216 / IEEE 98 This accelerated aging test predicts long-term product performance and is a key predictor of life-cycle performance of the material.	105C (5,000hr)	105C (5,000hr)*
Thermal Aging ASTM D2671 This test predicts life expectancy, and ties the material's tested values to real-life data from 35+ years of actual service life in the field	150C, (168hr)	150C, (168hr)
Flammability Performance		
Flame Retardancy This tests assesses a materials ability to self-extinguish under strict repeatable laboratory conditions, UL 94, IEC 60696-11-10	HB40	VO
Flame Retardancy Glow wire IEC 60695-2-11 (Simulates the ignition source associated with overheating busbar or connections) ASTM D2303 or IEC 60587 STEP test method, (with abrasion)	650C 300 minutes	650C 180 minutes
Halogen free	Yes	No
Electrical Product Performance Attributes:		
Wet Withstand IEEE-4-1995 and IEEE 1656-2010 (Guide), Fixed Electrode		
This test demonstrates a material's ability to protect against animal contact up to 35 kV	Yes	Yes
Wet Power Frequency Flashover & Lightning Impulse Withstand IEEE-4-1995 and IEEE 1656-2010 (Guide)		
This test demonstrates whether a cover affects the electrical perform of the insulator that it is covering	Yes	Yes
IEEE Compliance		
IEEE-1656 (Guide for testing wildlife protection devices on overhead equipment up to 38 kV) IEEE-1264-2022 (Guide for Animal Mitigation for Electric Power Supply Substations)	Yes	Yes

*Our final 5,000hr test data for new VO+ materials will be published in June 2023, at the time of writing 1200hr testing was complete

NOTE: TE Raychem VO+ has been rated for VO (UL94) applications

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PRODUCT SELECTION INFORMATION

TE Raychem Standard	TE Raychem VO+	Height mm (inches)	Diameter mm (inches)	Core Diameter mm (inches)	Arrester Type	Colour	Qty
BCAC-AR-5D-2 (B24)	BCAC+AR-5D-2 (B24)	70 (2.75)	127 (5.00)	6 (0.288)	Hubble	Red	24
BCAC-G-AR-5D-2 (B24)	BCAC+G-AR-5D-2 (B24)	70 (2.75)	127 (5.00)	6 (0.288)	Hubble	Grey	24
BCAC-AR-4D-2 (B24)	BCAC+AR-4D-2 (B24)	92 (3.63)	102 (4.00)	6 (0.288)	TE Connectivity	Red	24
BCAC-G-AR-4D-2 (B24)	BCAC+G-AR-4D-2 (B24)	92 (3.63)	102 (4.00)	6 (0.288)	TE Connectivity	Grey	24
BCAC-AR-3.75D-2 (B24)	BCAC+AR-3.75D-2 (B24)	82 (3.25)	95 (3.75)	6 (0.288)	Cooper	Red	24
BCAC-G-AR-3.75D-2 (B24)	BCAC+G-AR-3.75D-2 (B24)	82 (3.25)	95 (3.75)	6 (0.288)	Cooper	Grey	24
BCAC-AR-3.75D-3 (B24)	BCAC+AR-3.75D-3 (B24)	70 (2.75)	96 (3.75)	15.7 (0.62)	Siemens	Red	24
BCAC-G-AR-3.75D-3 (B24)	BCAC+G-AR-3.75D-3 (B24)	70 (2.75)	96 (3.75)	15.7 (0.62)	Siemens	Grey	24
BCAC-ARR-HOT-FT (B6)	BCAC+ARR-HOT-FT (B6)	118 (4.65)	n/a	19 (0.75)	Arizona Public Service	Red	6
BCAC-G-ARR-HOT-FT (B6)	BCAC+G-ARR-HOT-FT (B6)	118 (4.65)	n/a	19 (0.75)	Arizona Public Service	Grey	6

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PRODUCT PERFORMANCE

PHYSICAL

Key Material Property	Test Method	Material Requirements
Tensile Strength	ASTM D638	17 MPa (2450 psi) min.
Ultimate Elongation	ASTM D638	25% min.

ELECTRICAL

Key Material Property	Test Method	Material Requirements
Dielectric Strength (2.5 mm)	ASTM D257	150 kV/cm
Tracking and Erosion Resistance	ASTM D2303 Step Voltage Method (initiate at 2.5 kV)	No tracking erosion to top surface or flame failure 1hr @ 2.5 kV 1hr @ 2.75 kV 1hr @ 3.0 kV 1hr @ 3.25 kV 1hr @ 3.5 kV

TECHNICAL REPORT

Description	Document Reference
Material Test Report	UVR-8209
Product Test Report	EDR-5571
Installation Instructions	EPP-3910-10/21

Learn more: [TE.com/energy](https://www.te.com/energy)

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