



RAYCHEM BUSHING CONNECTION ANIMAL COVER INSPECTION COVER (BCAC-IC)

WILDLIFE AND ASSET PROTECTION PRODUCTS

KEY FEATURES

- Visual inspection of connection and oil levels
- Conductors and leads exit easily through cover
- Robust latching and hinging mechanisms
- Fast and versatile installation
- REACH and RoHS compliant
- Rugged, non-tracking, UV-resistant polymer and flame-resistant

TE Connectivity's (TE) Raychem BCAC-IC insulating cover is designed to prevent animal caused outages on breaker, transformer and pole-top transformer bushings ranging from 15 kV to 36 kV.

The BCAC-IC insulating covers have been successfully eliminating outages from all types of animals for years. This cover is designed to provide the same great protection with enhanced features.

The cover is easily installed around bushings and connections by wrapping the double hinged design around the insulator's top skirt and snapping it in place with a robust latching mechanism. The cover allows for conductors to exit out both from the top and side interfaces without the need to trim the cover. The design allows for visible inspections of oil fill levels on transformer bushings as well.

Superior high-voltage outdoor materials are used in the BCAC-IC cover design. The rugged, cross linked, non-tracking, UV-resistant, high temperature 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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TE's wildlife and asset protection products and systems of tubes, tapes, sheets, pre-formed covers and barriers provide a proven, cost-effective and easy-to-install solution to bird, animal and weather related outages.

PRODUCT PERFORMANCE		
TESTING		
AC Withstand		
25 kV phase to ground		
PHYSICAL		
Key Material Property	Specification	Results
Tensile Strength	ATSM D638	17 MPa (2450 psi) min.
Ultimate Elongation	ASTM D638	25% min.
ELECTRICAL		
Key Material Property	Specification	Results
Dielectric Strength	ATSM D257	150 kV/cm min. (2.5 mm)
Tracking and Erosion Resistance	ATSM D2303 Step Voltage Method (initiate at 2.5 kV)	No tracking erosion to top surface or flame failure after: 1hr at 2.5 kV 1hr at 2.75 kV 1hr at 3.00 kV 1hr at 3.25 kV 1hr at 3.5 kV



BCAC-IC closed cage

BCAC-IC open cage

PRODUCT SELECTION INFORMATION - DIMENSIONS IN INCHES (MM)						
TE Raychem Standard	TE Raychem VO+	Height mm (inches)	Fits Recloser Type	Maximum Skirt mm (inches)	Colour	Qty
BCAC-IC-5D/6 (B6)	BCAC+IC-5D/6 (B6)	1.5 - 3.5 (38 - 89)	2.5 - 5.0 (63 - 127)	6 (152)	Red	6
BCAC-G-IC-5D/6 (B6)	BCAC+G-IC-5D/6 (B6)	1.5 - 3.5 (38 - 89)	2.5 - 5.0 (63 - 127)	6 (152)	Grey	6
BCAC-IC-7D/12 (B6)	BCAC+IC-7D/12 (B6)	3.0 - 4.87 (76 - 124)	3.75 - 7.00 (96 - 178)	12 (305)	Red	6
BCAC-G-IC-7D/12 (B6)	BCAC+G-IC-7D/12 (B6)	3.0 - 4.87 (76 - 124)	3.75 - 7.00 (96 - 178)	12 (305)	Grey	6
BCAC-IC-8D/18 (B6)	BCAC+IC-8D/18 (B6)	3.5 - 6.25 (90 - 160)	4.00 - 8.00 (100 - 200)	18 (455)	Red	6
BCAC-G-IC-8D/18 (B6)	BCAC+G-IC-8D/18 (B6)	3.5 - 6.25 (90 - 160)	4.00 - 8.00 (100 - 200)	18 (455)	Grey	6
BCAC-IC-10.5D/20 (B6)	BCAC+IC-10.5D/20 (B6)	3.5 - 8.5 (90 - 215)	6 - 10.5 (150 - 267)	20 (508)	Red	6
BCAC-G-IC-10.5D/20 (B6)	BCAC+G-IC-10.5D/20 (B6)	3.5 - 8.5 (90 - 215)	6 - 10.5 (150 - 267)	20 (508)	Grey	6

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

TECHNICAL REPORT	
EDR-5514	BCAC-IC Electrical Evaluation
UVR 8209	Material Test Report

INSTALLATION INSTRUCTIONS	
EPP-322-10/18	Installation Instructions for BCAC-IC (all sizes)
PII-56104	

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

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