

RAYCHEM MEDIUM VOLTAGE BIRD PROTECTION COVERS (BCIC)

WILDLIFE AND ASSET PROTECTION PRODUCTS



CAN BE INSTALLED ON ANY STANDARD INSULATORS UP TO 24 kV, THANKS TO THE VERSATILE DESIGN

KEY FEATURES

- UV and weather resistant material
- Versatile design to fit a wide range of post insulators
- Installation on center and side tie conductor orientations
- REACH and RoHS compliant

TE Connectivity's (TE) Raychem bird protection caps BCIC have been developed to protect birds and other animals against dangerous proximity to live conductors and the tops of insulators, mounted on concrete or metal poles.

The universal design allows the bird caps to be installed on any common insulators, up to 24 kV. The bird caps are made from a flexible polymer which has an especially high UV stability, track and weather resistance. The material used has demonstrated exceptional performance in many similar applications. They are designed in accordance with the bird protection requirements, outlined in DIN VDE 0210/12.85, paragraph 8.10.

The bird cap's flexible material allows it to conform to bent conductors, for example arrangements with two insulators for double security.

APPLICATIONS

- Post Insulators
- MV & HV Overhead Lines

RELEVANT STANDARDS AND TESTING

- Tracking Erosion Resistance - ASTM D2303
- Thermal Endurance - IEC 60216
- Tensile Strength - ASTM D412
- UV Weathering - ASTM G154

TECHNICAL SPECIFICATIONS

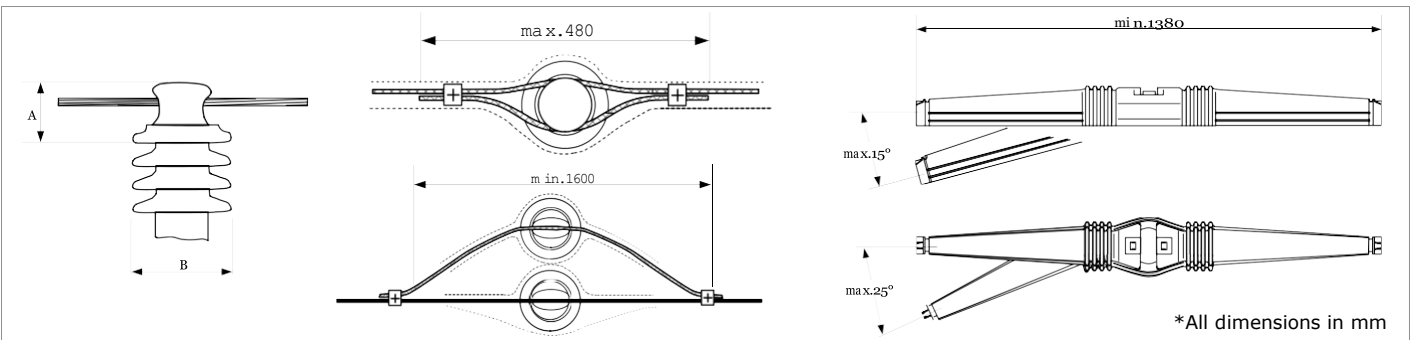
Product Description	Application Dimensions Insulator (mm)		Pack Size
	A min.	B min.	
BCIC-3313 (S3)	60	160	3
BCIC-3313 (S24)	60	160	24
BCIC-3314 (S3)	65	160	3
BCIC-3314 (S24)	65	160	24

PRODUCT PERFORMANCE

Properties	Test Method	Requirement
Physical		
Tensile Strength	ASTM D638	10 MPa min. 1450 psi min.
Ultimate Elongation	ASTM D638	300% min.
Accelerated Aging 168 Hrs At 150±2°C	ASTM D2671 ASTM D638	--
Tensile Strength		10 MPa min. 1450 psi min.
Ultimate Elongation		300% min.
Uv Weathering Resistance (5000 Hrs)	ASTM G154 Cycle 3 & Cycle 1	200% min.
Ultimate Elongation		
Thermal Endurance	IEC 60216	105°C min.
Electrical		
Tracking and Erosion Resistance	ASTM D2303 step voltage method initiating at 2.5 kV	No tracking or erosion to top surface or flame failure after: 1 hr at 2.50 kV 1 hr at 2.75 kV 1 hr at 3.00 kV 20 minutes at 3.25 kV
Dielectric Strength (2.5 mm / 0.08 Inches)	ASTM D257	130 kVcm (330 V/mil) min.
Product Testing		
Temperature Cycling	50 cycles from -30 °C to +60 °C, 2 cycles per day	No change in components/product
Wind Resistance Testing	Up to 135 km/h windspeed	No permanent deformation of the installed system
AC Withstand	Flashover Performance test	20 kV (ph-gr) / 34 kV (ph-ph)
Leakage Current	0.8% Salt fog at 15 kV (ph-gr)	<2 mA

TECHNICAL REPORTS

Document Reference	Document
PPR-3326	BCIC Material Test Report
UVR-8208	BCIC 3313 and 3314 Product Test Report
UVR-8217	BCIC 3313 and 3314 Wind Resistance Test Report
EPP-0595	BCIC 3313 and 3314 Installation Instructions



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

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