



BUS INSULATOR SQUIRREL GUARD (BISG-60/115)

WILDLIFE AND ASSET PROTECTION PRODUCTS

KEY FEATURES

- Easy to install on bus and switch insulators
- Bolted design for excellent mechanical hold and wind resistance
- Excellent insulator or prevention against phase-to-ground flashovers
- Fits insulation core diameters ranging from 1" (25 mm) through 4.5" (115 mm)
- Rugged, non-tracking, UV-resistant polymer
- REACH and RoHS compliant

TE Connectivity's (TE) Raychem BISG-60/115 improved isolation guard prevents bird, animal and weather related outages in electrical substation equipment.

TE's Raychem BISG-60/115 discs have been successfully eliminating outages from squirrels, raccoons, opossums, cats, and other animals in substations for years. The BISG-60/115 guard has been designed to provide the same great protection with added features. Its "invisible" design allows easier visibility of switch blades and other equipment components through the guard. This new design allows for easy field modifications and can be reduced by trimming along the grill ribs for tight phase-to-phase insulator applications.

The BISG-60/115 guard allows easier hot-stick installation by incorporating a threaded area in the guard. The integrated threads eliminate the need to hold a nut while installing the bolt assembly with a hot-stick. The bolted design positively and tightly secures the device onto the insulator or bushing, preventing loosening or drooping caused by wind, snow, ice or animals.

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

BUS INSULATOR SQUIRREL GUARD (BISG-60/115)



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

Test

Power Arc	14.4 kV RMS, No evidence of burns or flames
Test Current	10 kA RMS 10 cycles
Ice Flashover/ Contamination	Insulator with BISG guard must demonstrate a flashover value within 90% of control
Impulse/BIL	Does not significantly alter electrical characteristic of insulator
AC Dry Withstand on Disconnecting Switch	15 kV minimum
Wind Tunnel	70 MPH for 10 min., No dislodging of BISG guard from insulator location

Physical

Key Material Properties	Test Method	Required
Tensile Strength	ASTM D2628	17 MPa min., 2450 psi min.
Ultimate Elongation	ASTM D2638	25% min.

Electrical

Key Material Properties	Test Method	Required
Tracking and Erosion	ASTM 2303 Resistance	No tracking, erosion to top surface or flame. Stop Voltage Method Failure after 1 hr. at 2.5 kV 1 hr. at 2.75 kV 1 hr. at 3.0 kV Initiate at 2.5 kV and 20 min at 3.25 kV

Selection

Description	Insulator Core Diameter Range	Overall Product Diameter After Installation (Min-Max)*	Application	Std. Pack
BISG-60/115-02(S10)	2.5" - 4.5" (60 - 115 mm)	21.6" - 24.42 (550 - 620mm)	Standard	10
BISG-60/115-03-HOT(B10)	2.5" - 4.5" (60 - 115 mm)	21.6" - 24.42 (550 - 620mm)	Live installation	10
BISG-G-60/115-02(S10)	2.5" - 4.5" (60 - 115 mm)	21.6" - 24.42 (550 - 620mm)	Standard	10
BISG-G-60/115-03-HOT(B10)	2.5" - 4.5" (60 - 115 mm)	21.6" - 24.42 (550 - 620mm)	Live installation	10

* Overall product diameter can be trimmed down to 17" (431.8 mm) diameter.

TECHNICAL REPORT

EDR-5310	Bus Insulator Squirrel Guard (BISG-60/115-02-FT) Mechanical/Electrical Evaluation
EDR-5311	Rigid Red Barrier Board (RRBB) Product Qualification Report BISG Material Test Report

INSTALLATION INSTRUCTIONS

EPP-3147-6/18 PII-54937	Installation instructions for BISG-60/115-02
EPP-3256-11/18 PII-55189	Installation instructions for BISG-60/115-03-HOT

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

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