



BUS INSULATOR SQUIRREL GUARD

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

TE Connectivity's (TE) Raychem BISG improved isolation guard prevents animal-caused outages in electrical substation equipment.

BISG discs have been successfully eliminating outages from squirrels, raccoons, opossums, cats, and other animals in substations for years. The BISG 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 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.



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	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*	Application
BISG-60/115-02-(S10)		1.0" - 4.5" (25 - 115 mm)	23"	Standard	10
BISG-60/115-03-HOT(B10)		1.0" - 4.5" (25 - 115 mm)	23"	Live installation	10
* Overall product diameter can be trimmed down to 17" diameter.					

TECHNICAL REPORT	
EDR-5310	Bus Insulator Squirrel Guard (BISG-60/115-02-FT) Mechanical/Electrical Evaluation

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