



Energy Division

BISG-24

Bus Insulator Squirrel Guard for Energized Installations

This improved isolation guard prevents animal-caused outages in electrical substation equipment.

- **Reliable Outage Prevention**

BISG discs have been successfully eliminating outages from squirrels, raccoons, opossums, cats and other animals in substations for years. The BISG-24 guard has been designed to provide the same great protection with added features.

- **Same High Performance Material**

Superior high voltage outdoor materials are used in the BISG-24 guard design. The rugged, non-tracking, UV-resistant polymer ensures long-term performance even in the most extreme environmental conditions.

- **Faster, Easier Installation**

The BISG-24 guard can be installed on energized equipment by one person. The new design incorporates a wedge device which makes hot-stick installations on vertical and horizontal mounted insulators quick and easy.

- **Size Range/Secure**

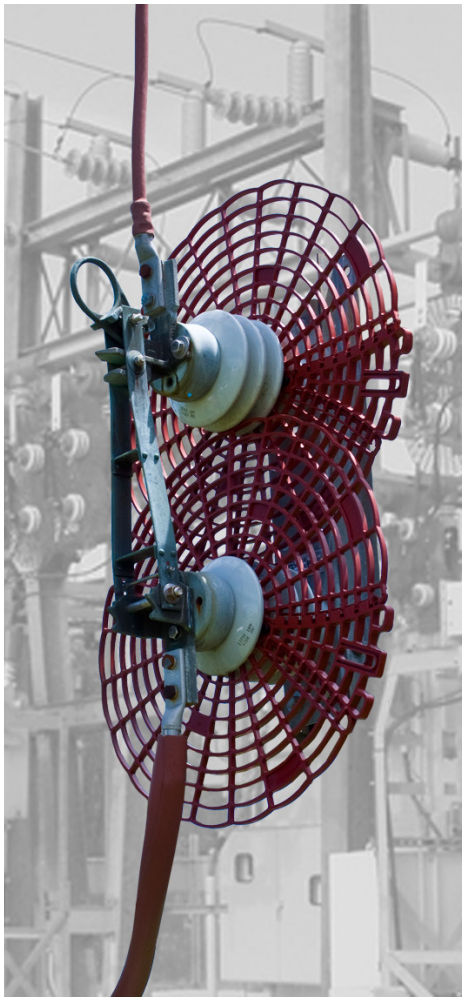
The BISG-24 guard fits insulator core diameters ranging from 2.5" (62mm) through 5.0" (125mm). The "grill" type design allows easy field modifications for even larger diameters (see your local Tyco Electronics sales representative for details). For tight phase-to-phase insulator applications, the BISG-24 outside diameter can be reduced by trimming along the grill ribs.

The BISG-24 continues to maintain excellent mechanical resistance to power arcs and high wind speeds.

- **"Invisible" Appearance**

The "invisible" design allows excellent visibility of switch blades and other equipment components through the guard.

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Our commitment. Your advantage.



Product Testing	Requirement
Power Arc (14.4 kV RMS) Test Current: (20 kA RMS 10 cycles)	No evidence of burns or flames
Wind Tunnel (65 MPH for 10 minutes)	No dislodging of BISG guard from insulator location

Key Material Properties	Test Method	Requirement
Physical Tensile Strength	ASTM D2638	17 MPa min 2450 psi min.
Physical Ultimate Elongation	ASTM D2638	25% min,
Electrical Tracking and Erosion	ASTM 2303 Resistance	No Tracking, erosion to top surface or flame Step Voltage Method Failure after: 1 hour at 2.5 kV 1 hour at 2.75 kV 1 hour at 3.0 kV initiate at 2.5 kV and 20 min. at 3.25 kV

Selection Information:

Catalog Number	Insulation Range	Std. Pack	Color
BISG-24-01 (B10)	2.5" - 5.0" (62mm-125mm)	10	Red
BISG-G-24-01 (B10)	2.5" - 5.0" (62mm-125mm)	10	Gray

Technical Report:

EDR 5517 - Bus Insulator Squirrel Guard (BISG-24-01)
Mechanical/Electrical Evaluation

Tyco Electronics Corporation
8000 Purfoy Road
Fuquay Varina, NC 27526-9349
Tel: 800.327.6996
Fax: 800.527.8350
E-mail: naenergy@tycoelectronics.com
<http://energy.tycoelectronics.com/raysulate>
www.tycoelectronics.com

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