

Increase System Reliability - Minimize Avian Interaction

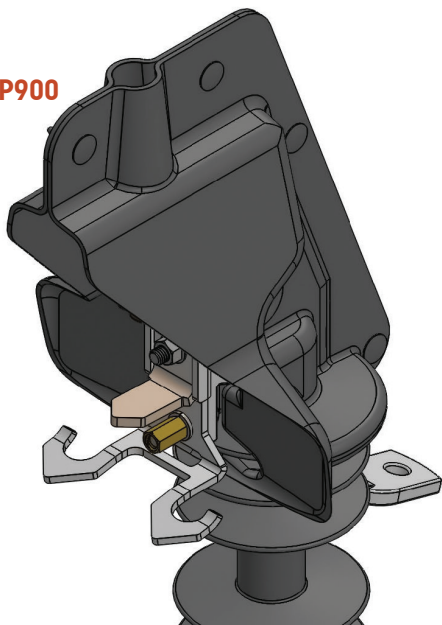
Rauckman **Covers for Single Insulator Disconnects** help electric utilities minimize outages caused by animal interaction. The benefits are not simply the minimizing of outages, but also the mitigation of Avian interactions. Single Insulator Disconnects have increased in popularity due to convenience and economics. These devices are sometimes referred to as vertical or cutout disconnects. The Rauckman cover is easily installed and covers the energized components on the top of new or in-place switches.

Single Insulator Disconnects incorporate load-break hooks to allow the use of a portable load-break tool. These tools are typically landed on these hooks from an appreciable distance so it is critical that a cover does not hinder this process. Rauckman's covers are field tested to ensure that the cover does not interfere with the use of these portable load-break tools.

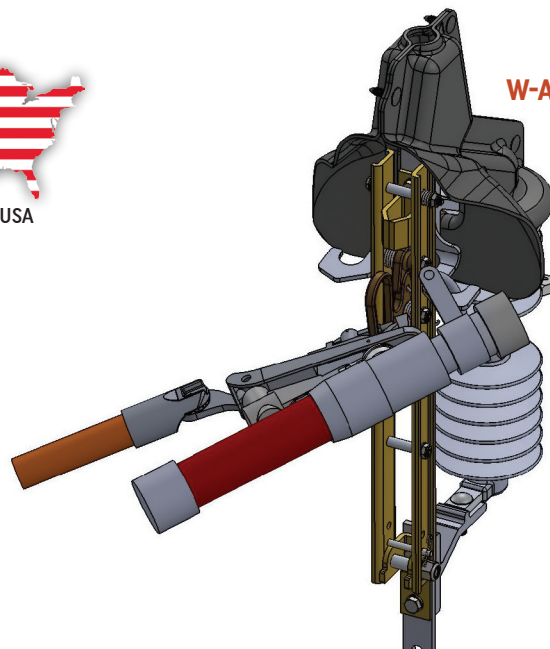


Model W-AL900 installed on an Aluma-Form 900 Amp Single-Insulator Disconnect Switch

W-HP900



W-AL900



ORDERING INFORMATION

Catalog No.	Description	Single-Insulator Disconnect Rating			Weight Each (lbs.)
		Voltage (kV)	BIL (kV)	Current (A)	
W-AL900	Cover for Aluma-Form Disconnect	15 and 27	110 and 125	600 and 900	1.3
W-HP900	Cover for Hubbell Power Systems Disconnect	15 and 27	110 and 125	600 and 900	1.1

MATERIAL CHARACTERISTICS

The heart and soul of Rauckman's cover is a unique material that was jointly developed by Rauckman and a large U.S. compounder of specialty thermoplastics. The development process took over two years and resulted in Rauckman's **RUPP0009**, a material specifically formulated and compounded for the rigorous requirements of an energized application on an electric utility system.

Mechanical Characteristics

► Impact Strength, Izod		
Notched 1/8" (3.2 mm) Section:	10.0 ft-lbs/in	ASTM D256
Un-notched 1/8" (3.2 mm) Section:	No Break	ASTM D4812
► Tensile Strength:	1500 psi	ASTM D638
► Tensile Elongation:	> 10.0%	ASTM D638
► Tensile Modulus:	0.04 x 10 ⁶ psi	ASTM D638
► Flexural Strength:	1600 psi	ASTM D790
► Flexural Modulus:	0.05 x 10 ⁶ psi	ASTM D790

ACCELERATED WEATHERING TEST — ASTM G154

Standard Practice for Operating
Fluorescent Ultraviolet (UV) Lamp
Apparatus for Exposure of Nonmetallic
Materials.

After over 1,000 hours of accelerated
weathering there is no discernible
change in the material's appearance.



NEW



1,049 Hrs

DIELECTRIC STRENGTH — ASTM D149

Standard Test Method for Dielectric
Breakdown Voltage and Dielectric Strength
of Solid Electrical Insulating Materials at
Commercial Power Frequencies.

New Sample

► Specimen Thickness:	0.094" (94 mil)
► Puncture Voltage:	52.8 kV
► Volts / mil:	562 Volt / mil

After 1,049 Hours of UV - ASTM 154

► Specimen Thickness:	0.094" (94 mil)
► Puncture Voltage:	53.1 kV
► Volts / mil:	570 Volt / mil

ELECTRICAL EROSION (TRACKING) — ASTM D2303

Standard Test Methods
for Liquid-Contaminant,
Inclined-Plane Tracking
and Erosion of Insulating
Materials.

New Sample

Voltage (kV)	Duration	Notes
4.00	60 min	No Change
4.25	60 min	No Change
4.50	60 min	No Change
4.75	60 min	Slight Discoloration
*5.00	60 min	Discoloration / No Erosion

After 1,049 Hours of UV - ASTM 154

Voltage (kV)	Duration	Notes
4.00	60 min	No Change
4.25	60 min	No Change
4.50	60 min	No Change
4.75	60 min	Slight Discoloration
*5.00	60 min	Discoloration / No Erosion

*5.00 kV for 60 minutes is upper limit of ASTM D2303

FLAMMABILITY — UL 94

Standard for Safety of Flammability of Plastic
Materials for Parts in Devices and Appliances.

CLASSIFICATION: HB

Classification Criterion

3.0 mm to 13.0 mm Thickness

- Slower than 40 mm/minute or ...
- Combustion ceases prematurely

< 3.0 mm Thickness

- Slower than 75 mm/minute or ...
- Combustion ceases prematurely

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