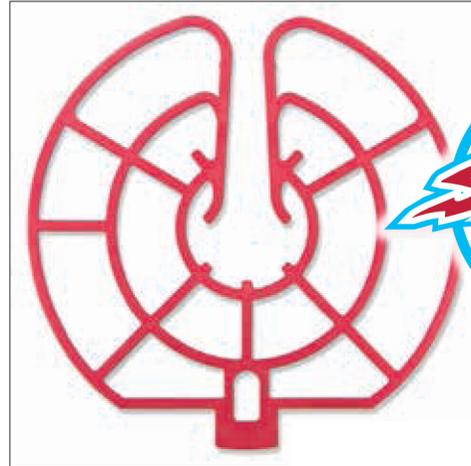


Minimize Animal-Related Outages

Rauckman's ZAPSHIELD™ & ZAPCOVER™ products use patented Rauck-Shock Technology™ engineered polymer to minimize the occurrences of animal-related electric service interruptions.



ZAPSHIELD
Model W-1525R

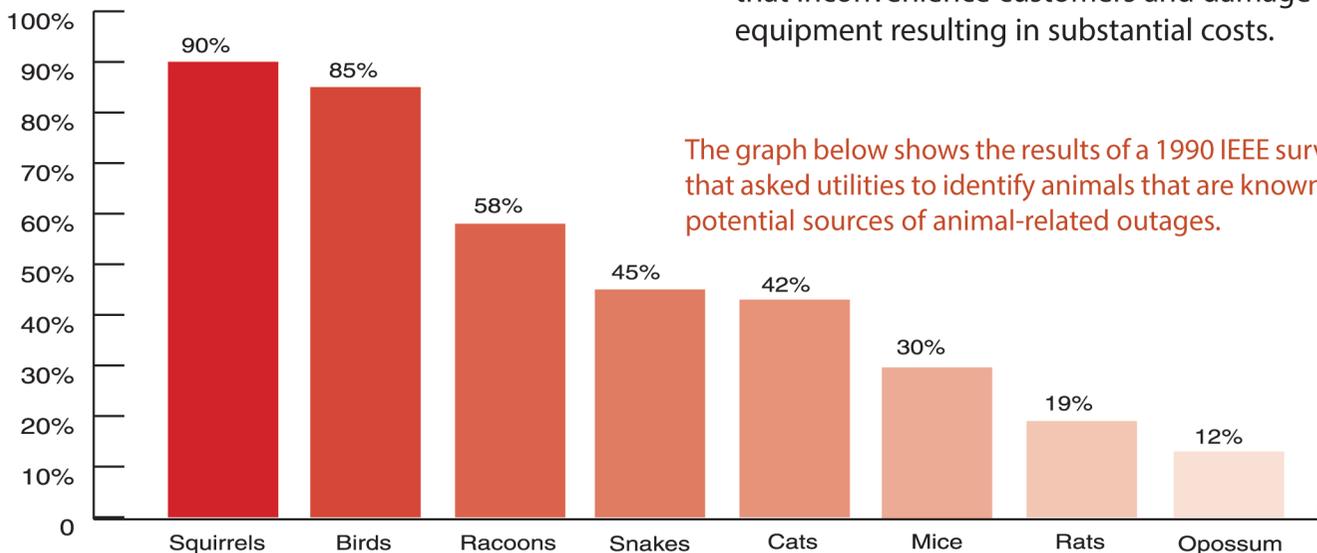
J Harlen Co.
LINEMAN TOOL SUPPLY
PO BOX 98956, RALEIGH, NC 27624
Phone: 888-878-5480 Fax: 888-878-2259
www.jharlen.com



Animals are second only to weather as causes of outages

Rauck-Shock polymer picks up a charge from the energized bushing that the product is mounted on and delivers a non-lethal electrostatic discharge when contacted by an animal. This trains the animals through negative response conditioning. After an animal receives a jolt from the ZAP polymer it soon learns to stay away from equipment bushings. This minimizes the animal-caused unplanned outages that inconvenience customers and damage equipment resulting in substantial costs.

The graph below shows the results of a 1990 IEEE survey that asked utilities to identify animals that are known or potential sources of animal-related outages.



Results of 1990 IEEE Utility Survey.

Reference: IEEE Std. 1264-1993. IEEE Guide for Animal Deterrents for Electric Power Supply Substations



Models W-1525R & W-1525G

ZAPSHIELD product is entirely made of Rauck-Shock polymer. It is designed to be installed on electric utilities' distribution & substation equipment bushings of 15 kV and 25 kV.

For other voltages consult factory.



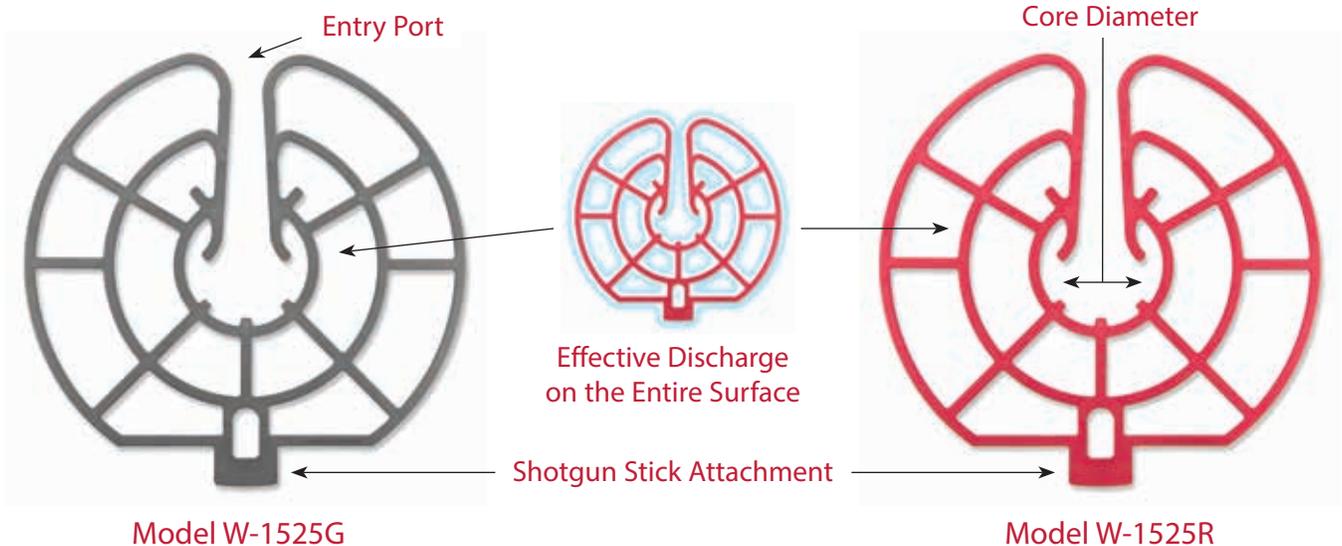
Model W-1525R ZAPshield on a Distribution Transformer



ZAPSHIELD can be installed using an All-Angle Pliers or a Shotgun Stick

Installation of ZAPSHIELD is quite simple and has the following features / benefits:

- » Can be installed hot and does not require an outage.
- » Use right out of the box, no hardware or assembly is required.
- » Requires only one shotgun style hotstick or all-angle pliers and universal hotstick.
- » Long life using engineered polymer technology for UV protection, track & flame resistance.



Model W-1525G

Model W-1525R

| Catalog No. | Description | Overall Diameter * | Core Diameter Range (inches) * | | Color | Quantity per Box |
|-------------|-----------------------------------|--------------------|--------------------------------|------|-------|------------------|
| | | | Min. | Max. | | |
| W-1525R | ZAPSHIELD Distribution, 10", Red | 10.25 inch | 1 | 2.75 | Red | 25 |
| W-1525G | ZAPSHIELD Distribution, 10", Gray | 10.25 inch | 1 | 2.75 | Gray | 25 |

* Other Sizes are Available, Consult Factory