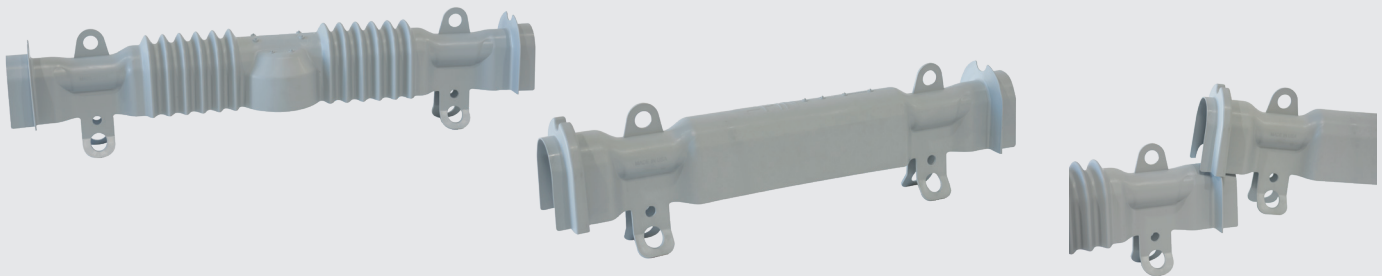


HOT STICKABLE TIE TOP INSULATOR GUARD (PI-13010K and PI-13024)

For most powerline structures, Tie Top insulators are situated on perch locations preferred by birds. Phase to phase or phase to ground contact from wingspans are common. Reliaguard Tie Top Insulator Guards prevent outages, protecting endangered species, birds, squirrels, raccoons, snakes, feral cats and other wildlife from contact with energized risk points. These guards are a perfect addition to your Avian Protection Plan.

Better by Design

- Based on the 100 years of collective knowledge of the Reliaguard linemen who specialize in wildlife mitigation, designs consider all risk points. A team of skilled CAD designers support our linemen to incorporate features unique to only Reliaguard Tie Top Insulator Guards.
- Reliaguard Tie Top Insulator Guards are designed to remain securely in place without compromising an insulator's BIL rating
- Tie Top Insulator Guards accommodate a wide range of wire sizes and are easily installed with a Hot Stick - Made in the USA.



Superior Material

- All Reliaguard products are made from Reliatanium, a proprietary material designed by Reliaguard's chemical engineering founders.
- Reliatanium achieves a V-0 flammability classification, the highest rating for the UL 94 test standard and has a 15+ year lifespan.
- Reliatanium material properties incorporate excellent UV stability and flame retardancy
- Rigid and robust material in properties and design
- Tested to meet specific guidelines of IEEE 1656-2010

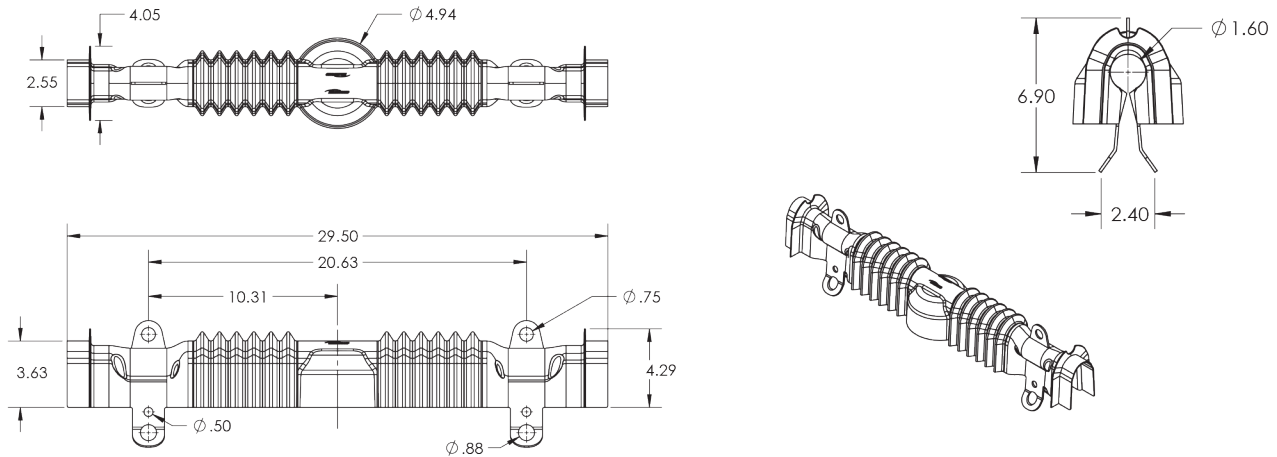
Ease of Installation

Power linemen like our products for the following features:

- Reliaguard Tie Top Insulator Guards are designed to stay in place. Retention of the guard once applied is a critical design feature to be considered.
- Fits wire sizes #6 AWG to 954 kcmil
- Fits ANSI class 55-3 through 55-7 and ANSI class 56-1 polymer and porcelain insulators
- Accordion design easily accommodates angled installations

Technical Features

Designed to prevent wildlife caused outages, these guards are tested for application on equipment up to 38kV.



Product Name	Part Number	Length Dimension ³	Pack Size (MOQ)
HS Tie Top Pin Insulator CFJ Kit ¹	PI-13010K	73	3
22" Extension Arms ²	PI-13024	22	12

¹Dimensions in inches (millimeters)

¹Center piece and (2) Arms

²Add-on extension Arms for more coverage

³Assembled length for kit

Technical Features

Designed to prevent wildlife caused outages, these guards are tested for application on equipment up to 38kV.

Performance Test #	Test Standards	Details	Test Result
Flammability	IEEE 1656™ - 2010 Section 5.9.1	Self-extinguishing, no drips	V-0
Ultraviolet Aging	IEEE std 1656™ - 2010 Section 5.6	After completing 1000 hours, no perceived changes to the condition of test samples.	Completed
Tracking and Erosion Resistance	IEC 60587	6 hrs (Full duration of test)	Achieved @ 2KV
Wet Power Frequency Flashover	IEEE Std 1656™-2010 Section 5.3	Average flashover value of all samples greater than 90% of the value obtained on the test fixture alone	Passed
Wet Withstand	IEEE Std 1656™-2010 Section 5.2.1	Option 1 - moving Electrode All Samples did not puncture or flash over	Passed @38kV

Properties	Unit	Test Method	Value
Dielectric Strength	V/mil	ASTM D149	549