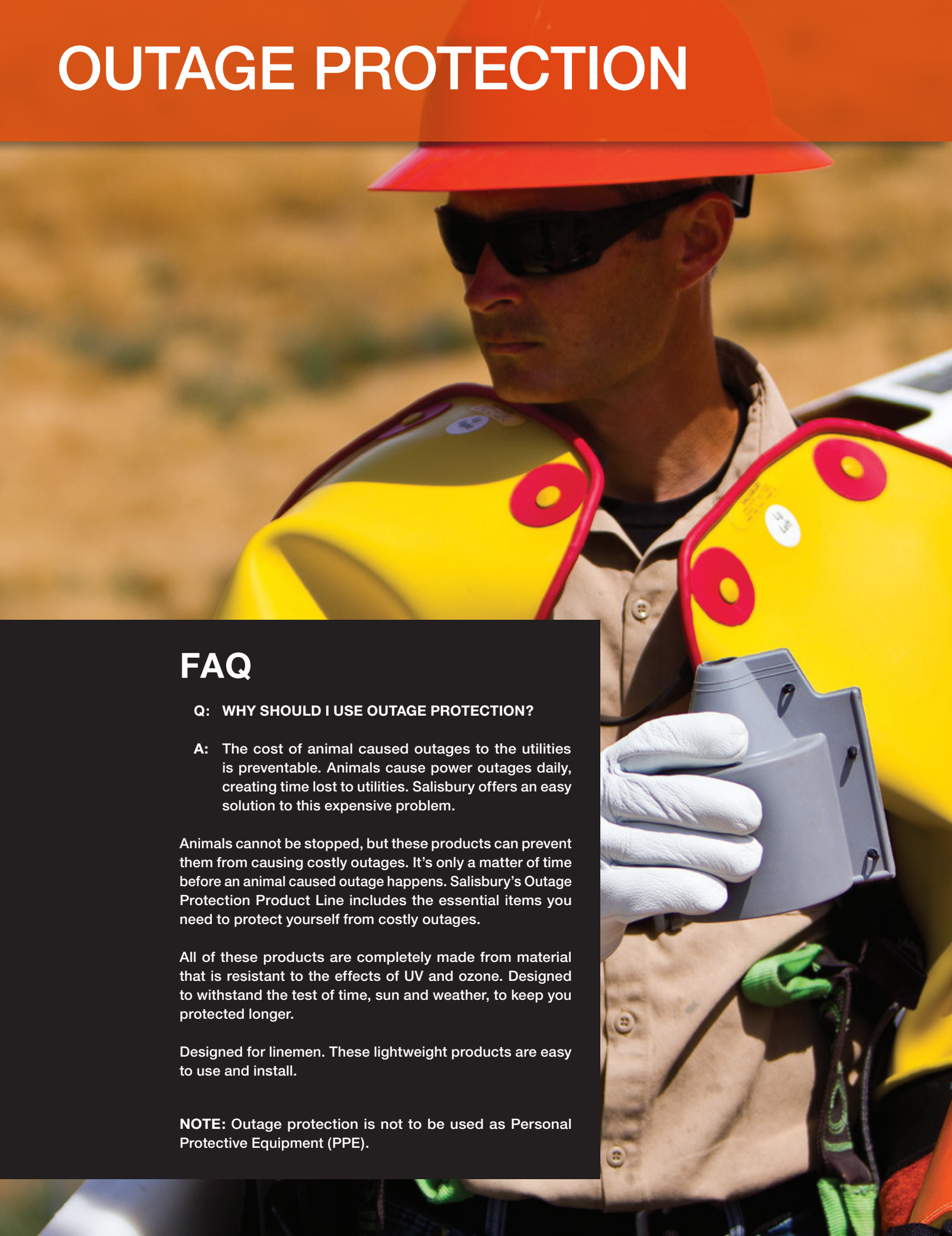
Honeywell
SALISBURY

OUTAGE PROTECTION

OUTAGE PROTECTION



FAQ

Q: WHY SHOULD I USE OUTAGE PROTECTION?

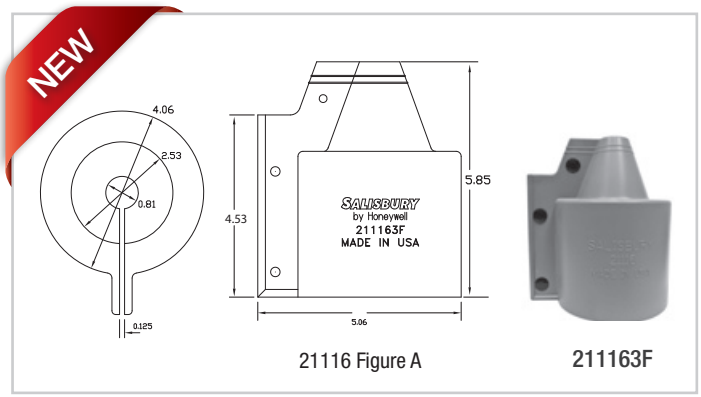
A: The cost of animal caused outages to the utilities is preventable. Animals cause power outages daily, creating time lost to utilities. Salisbury offers an easy solution to this expensive problem.

Animals cannot be stopped, but these products can prevent them from causing costly outages. It's only a matter of time before an animal caused outage happens. Salisbury's Outage Protection Product Line includes the essential items you need to protect yourself from costly outages.

All of these products are completely made from material that is resistant to the effects of UV and ozone. Designed to withstand the test of time, sun and weather, to keep you protected longer.

Designed for linemen. These lightweight products are easy to use and install.

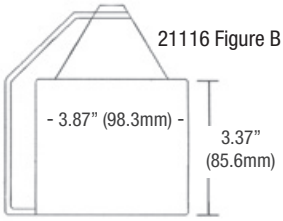
NOTE: Outage protection is not to be used as Personal Protective Equipment (PPE).



21116 Figure A

211163F

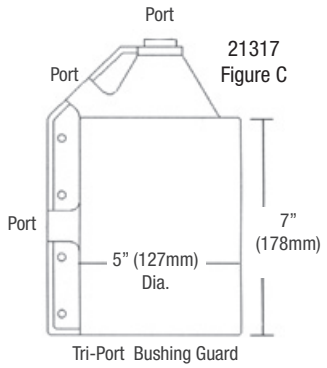
21116



Standard Bushing Guard

21116 TC

21317 - Tri-Port®



Tri-Port Bushing Guard

BC512

21644

Standard Salisbury **BUSHING COVERS** and Salisbury **TRI-PORT® BUSHING COVERS** are made from Ozone and UV resistant silicone rubber which maximizes their outdoor durability and tracking resistance. These covers have been **ACCEPTED BY RURAL UTILITIES SERVICE (RUS).**

Bushing Covers protect against wildlife contacts between energized equipment and ground by insulating exposed energized bushing parts.

STANDARD and **TRI-PORT® BUSHING COVERS** interlock with the top weathershed of the bushing and are securely fastened by inserting lock buttons (provided).

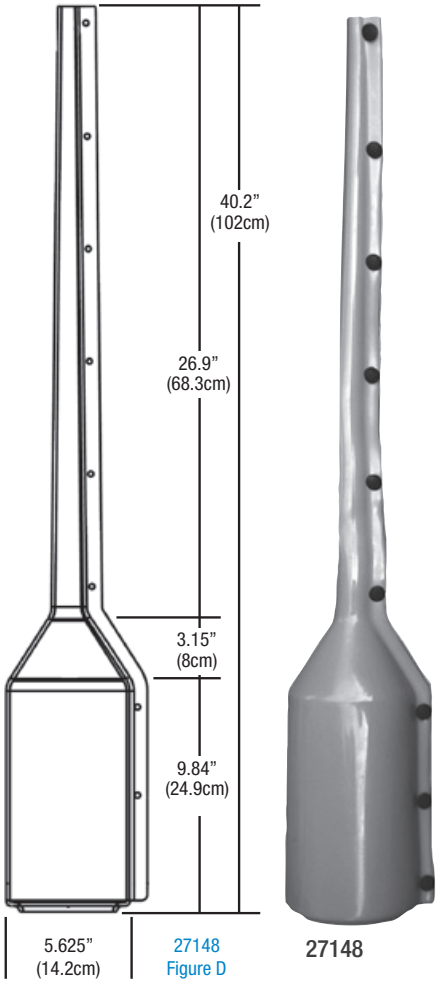
The **211163F** new bushing cover option provides added protection against animal caused outages. The third fastener (lock button) secures the cover firmly onto the bare conductor or stinger cover further insulating energized equipment. The **21116TC**, Bushing Cover includes the 21644 Tube Closure. The **21644** Tube Closure provides an easier and quicker way to securely close the standard bushing cover

Bushing Covers can be installed without disconnecting equipment using rubber insulating gloves. Covering a small area of the lead wire, the opening can be trimmed to accommodate larger wires or 5/8" and 3/4" Salisbury Stinger Covers.

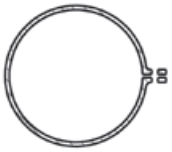
CONE BUSHING COVERS For complete 360 degree coverage, the BC512 is the right choice. These covers come complete with upper and lower trim rings for a custom fit size and internal ribs for added air flow and water drainage. Made from Ozone and UV resistant silicone rubber, the BC512 permanently protects bushings from all sources of potential outages. Installation requires de-energizing equipment.

CAT. NO.	DESCRIPTION	DIMENSIONS in. (mm)	QUANTITY	FLASHOVER TEST PHASE TO GROUND VOLTAGE	WEIGHT EA. lbs. (kgs)
BUSHING COVERS					
21116	Cover Only w/ 2 lock buttons	See figure B	24 pcs.	16 kV	16 (7.3)
211163F	Cover Only w/ 3 lock buttons	See figure A	24 pcs.	16 kV	16 (7.3)
21116TC	Cover Only w/ 21644	See figure A	24 pcs.	16 kV	16 (7.3)
21644	Tube Closure	-	-	-	-
21183	Cover Kit w/Stinger Cover	.375 x 18 (9.5 x 457)	24 pcs.	n/a	20 (9)
BC512	Cone Bushing Cover	12H x 5 W (305 H x 127 W)	1	n/a	1.5 (.7)
TRI-PORT® BUSHING COVERS					
21317	Cover Only	See Figure C	24 pcs.	16 kV	28 (12.7)
24140	Cover Kit w/ Stinger Cover	3/8 x 18 (9.5 x 457)	24 pcs.	n/a	35 (16)

COMPLETE BUSHING-STINGER COVER This product is made from UV resistant PVC plastic to maximize the outdoor durability. The Complete Bushing/Stinger Cover interlocks with the top weather shed of the bushing and securely fastens by inserting lock buttons (provided). The Complete Bushing/Stinger Cover can be installed without disconnecting equipment using rubber insulating gloves. This product offers an integrated stinger cover which will cover the lead wire for an easy solution.

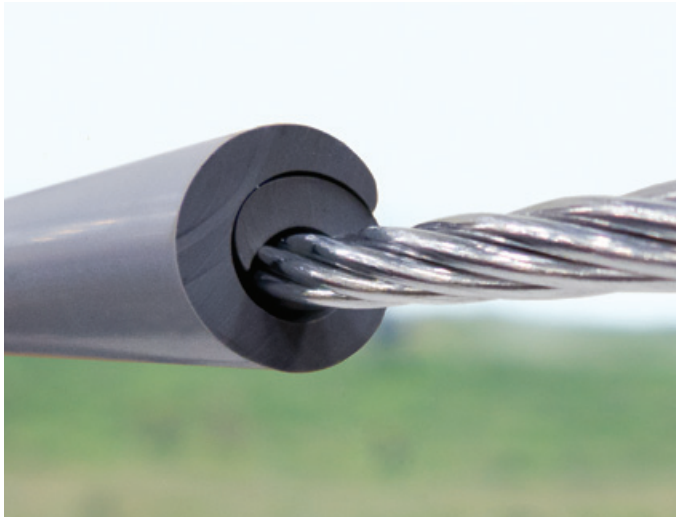


Bushing-Stinger
Cover Cross-Section



Bushing-Stinger
Cover Cross-Section

CAT. NO.	DESCRIPTION	DIMENSIONS in. (mm)	QUANTITY	PHASE TO GROUND FLASHOVER TEST VOLTAGE	WEIGHT EA. lbs. (kgs)
COMPLETE BUSHING-STINGER COVER					
27148	Bushing Cover & Stinger Cover Unit	See figure D	1 pc	-	48 (21.9)



THE SALISBURY STINGER COVERS SC AND SCS SERIES ARE EXTRUDED IN EPDM OR SILICONE RUBBER AND DESIGNED FOR FIELD INSTALLATION OVER BARE CONDUCTORS. THE COVERS PROVIDE ELECTRICAL INSULATION AND PROTECTION FOR PHASE TO PHASE AND PHASE TO GROUND FLASHOVER THAT IS CAUSED BY WILDLIFE CONTACT. ACCEPTED BY (RURAL UTILITY SERVICES) RUS.

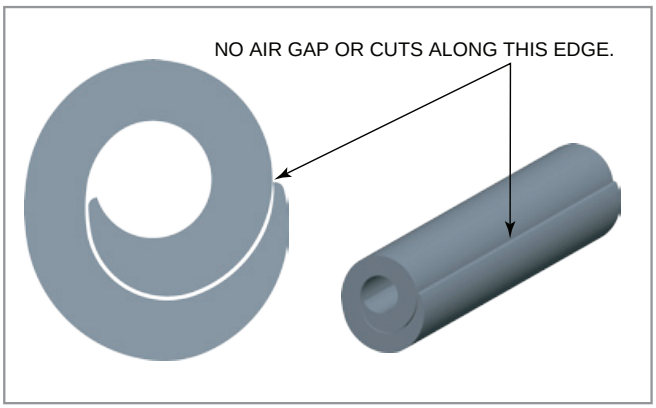
High Voltage Wild Life Outage Protection Conductor Cover.

NEW SILICONE STINGER COVERS are suitable for applications up to 20kV Phase to Ground. The new cover design offers improved electrical insulation for phase to phase and phase to ground protection. The covers are extruded with a tapered profile specifically designed to overlap onto itself and over the conductor further improving the dielectric properties and conductor protection. The new stinger covers are manufactured using silicone rubber which has excellent high and low temperature properties. They are designed to resist the test of time, sun and weather while keeping assets protected.

The stinger cover can be installed without disconnecting the lead wire from the bushing. Stinger covers are available in six diameters and are easily cut down to the length needed in the field.

SILICONE STINGER COVER FEATURES:

- Suitable for applications up to 20kV phase to ground
- Six sizes available & will fit conductors up to 1.25” dia.
- Improved pliability at greater temperature ranges -40° C to 200° C
- Excellent UV & Ozone resistance
- Unique design profile
- Excellent conductor protection and fit
- Easy slip on installation, no tool required
- Flexibility of covers facilitate overhead installation on tight bends. Ideal for substation and distribution applications



NEW 20kV SILICONE STINGER COVER
SPECIFICATIONS

PHYSICAL PROPERTIES

PROPERTY	SPECIFICATION	TEST METHOD
Material	Silicone Rubber	N/A
Color	Gray	N/A
Tensile Strength	600 PSI min	ASTM D-638
Elongation	≥200%	ASTM D-412
Durometer	60 +/-8	ASTM D2240
Temperature	-40°C to 200°C	N/A
Tear resistant	75 PPI min	N/A
Ozone resistant	No crack @ 40C°(107°F), 70 hrs	N/A
UV resistant (ASTM G-26)	Yes	N/A
Flammability rating (provided by material supplier)	UL 94 V-0	N/A
Comparative Tracking Index	> 500 V	ASTM D-3638
Low Temperature Torsional Stiffness	Pass	ASTM D 1053-92E

ELECTRICAL PROPERTIES

PROPERTY	SPECIFICATION	TEST METHOD
Dielectric Strength	≥ 300 V/mil (118 kV/cm)	ASTM D149
Flash over rating	Refer to ordering information	ASTM D1050 18.2 Electrical Flashover test
Volumetric resistivity	≥1 x 10^{14} Ohm/cm	N/A

Enhanced cover profile allows for easy "slip on" installation.

ORDERING INFORMATION

CAT. NO.	I.D. in. (mm)	THICKNESS in. (mm)	FLASHOVER TEST PHASE TO GROUND (kV)	FLASHOVER TEST PHASE TO PHASE (kV)	QUANTITY ft. (m)	WEIGHT lbs. (kgs)	CARTON SIZE in. (mm)
38-25SCS	3/8 (9.5)	.200 (5.08)	20	35	25 (7.62) coil	10 (4)	18 x 18 x 6 (457.2 x 457.2 x 154.2)
38-50SCS	3/8 (9.5)	.200 (5.08)	20	35	50 (15.24) coil	20 (9)	18 x 18 x 6 (457.2 x 457.2 x 154.2)
50-50SCS	1/2 (12.7)	.200 (5.08)	20	35	50 (15.24) coil	23 (10)	20 x 20 x 8 (508 x 508 x 203.2)
58-25SCS	5/8 (15.9)	.200 (5.08)	20	35	25 (7.62) coil	13 (5)	18 x 18 x 6 (457.2 x 457.2 x 154.2)
58-50SCS	5/8 (15.9)	.200 (5.08)	20	35	50 (15.24) coil	26 (11)	20 x 20 x 8 (508 x 508 x 203.2)
34-25SCS	3/4 (19.1)	.200 (5.08)	20	35	25 (7.62) coil	16 (7)	18 x 18 x 6 (457.2 x 457.2 x 154.2)
34-50SCS	3/4 (19.1)	.200 (5.08)	20	35	50 (15.24) coil	32 (14)	20 x 20 x 8 (508 x 508 x 203.2)
100-25SCS	1 (25.4)	.200 (5.08)	20	35	25 (7.62) coil	18 (8)	20 x 20 x 8 (508 x 508 x 203.2)
125-25SCS	1 ¼ (31.8)	.200 (5.08)	20	35	25 (7.62) coil	18 (8)	20 x 20 x 8 (508 x 508 x 203.2)

10kV-15kV WILD LIFE OUTAGE PROTECTION CONDUCTOR COVER

EPDM Silicone Stinger Covers are suitable for applications up to 15kV Phase to Ground. The stinger covers are made with EPDM rubber, which is UV and ozone resistant and is applied over the conductor. They are designed to resist the test of time, sun and weather to keep the assets protected.

The stinger cover can be installed without disconnecting the lead wire from the bushing. Stinger covers are available in three diameters and are easily cut down to the length needed in the field.

Stinger covers are track resistant and made from **OZONE AND UV RESISTANT SALCOR® ELASTOMER IN A GREY COLOR.** The covers are proven to provide years of reliable service either independently or when used with bushing covers.

EPDM STINGER COVER FEATURES:

- Suitable for applications up to 15kV phase to ground
- Three sizes and multiple packaging options available & will fit conductors up to .75" dia.
- Flexibility of covers facilitate overhead installation on tight bends. Ideal for substation and distribution applications.
- Excellent UV & Ozone resistance

EPDM Stinger Cover

Stinger Cover Cross-section

10-15kV EPDM STINGER COVER SPECIFICATIONS

PHYSICAL PROPERTIES

PROPERTY	SPECIFICATION	STANDARD
Material	EPDM	N/A
Color	Gray	N/A
Tensile Strength	600 PSI	ASTM D412
Elongation	500%	ASTM D412
Durometer	78	ASTM D2240

ELECTRICAL PROPERTIES

PROPERTY	SPECIFICATION	STANDARD
Dielectric Testing	486 V/mil (191.3 kV/cm)	ASTM D149
Flash over Rating	Refer to Ordering Information	ASTM D1050

ORDERING INFORMATION

CAT. NO.	I.D. in. (mm)	DIMENSIONS ft (m)	FLASHOVER TEST PHASE TO GROUND (kV)	FLASHOVER TEST PHASE TO PHASE (kV)	QUANTITY	WEIGHT lbs. (kgs)
38-2SC	3/8 (9.5)	2 (.61)	10.5	18	25 pcs.	9.5 (4.3)
38-50SC	3/8 (9.5)	50 (15.3)	10.5	18	1 coil	9.5 (4.3)
38-12SC	3/8 (9.5)	12 (3.7)	10.5	18	4 pcs.	9.5 (4.3)
38-18SC	3/8 (9.5)	18" (457mm)	10.5	18	50 pcs.	11 (5)
38-100SC	3/8 (9.5)	100 (30.5)	10.5	18	1 coil	16 (7.25)
58-12SC	5/8 (15.9)	12 (3.7) coil	12.5	22	4 pcs.	22 (10)
58-50SC	5/8 (15.9)	50 (15.3) coil	12.5	22	1 pc.	21 (9.5)
58-100SC	5/8 (15.9)	100 (30.5) coil	12.5	22	1 pc.	45 (20.5)
34-12SC	3/4 (25.4)	12 (3.7) coil	14.9	26	4 pcs.	22 (10)
34-25SC	3/4 (25.4)	25 (7.6) coil	14.9	26	2 pcs.	22 (10)

INSTANT INSULATION may be installed as a permanent cover to protect against outages caused by weather, trees and animals. Instant Insulation resists ozone and ultraviolet deterioration while remaining flexible even at sub-zero conditions.

Instant Insulation is made of orange or grey SALCOR® elastomer. Instant Insulation is sold in three diameters, each 12 feet in length. Each include six nylon UV resistant bar-lock cable ties to secure it to the conductor.

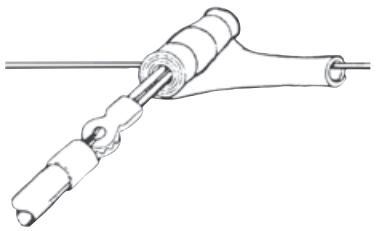
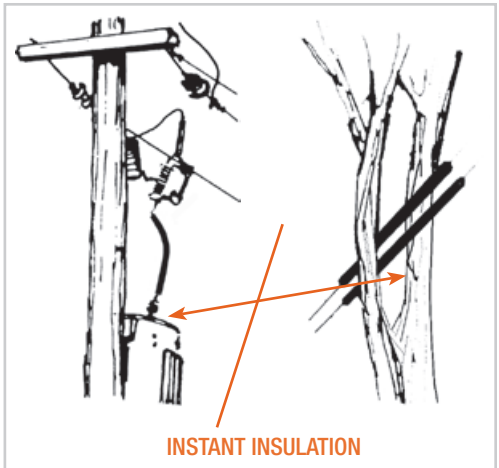
Instant Insulation can be installed using the **2494 APPLICATOR.** To install, insert one end of the Instant Insulation into the applicator prongs, then roll and coil the insulation as shown. Secure the coil end with tape, cable ties, or rubber bands. To install, release the secured end and the Instant Insulation will unroll and enclose the conductor.

NOTE: INSTANT INSULATION IS CURRENTLY RATED AT 20kV PER ASTM D1050 18.2 ELECTRICAL FLASHOVER TEST. MATERIAL DIELECTRIC STRENGTH IS OF 486 V/MIL. EFFECTIVE THICKNESS IS .15" TO .2" WHEN INSTALLED.

INSTANT INSULATION 12' / 3.6M LONG

CAT NO.	DIMENSIONS in.	DIMENSIONS mm	FLASHOVER TEST PHASE TO GROUND (kV)	FLASHOVER TEST PHASE TO PHASE (kV)	LENGTH ft. (m)	COLOR	WEIGHT EA. lbs. kgs
1127	.75 I.D.	19 I.D.	20	34.5	12 (3.6)	Grey	7 (3.2)
1128	.75 I.D.	19 I.D.	20	34.5	12 (3.6)	Orange	7 (3.2)
1129	1.00 I.D.	25 I.D.	20	34.5	12 (3.6)	Grey	8 (3.6)
1130	1.00 I.D.	25 I.D.	20	34.5	12 (3.6)	Orange	8 (3.6)
1131	1.25 I.D.	32 I.D.	20	34.5	12 (3.6)	Grey	10 (4.5)
1132	1.25 I.D.	32 I.D.	20	34.5	12 (3.6)	Orange	10 (4.5)
2494	Universal Hotstick Applicator				1 (.5)		

2494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