

## Pole Protection Products

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### Mechanical Deterrents

#### Animal Guard II

Animals are among the leading causes of outages. Animal Guard II can prevent ground-based animals from climbing and reaching energized equipment. For pesky climbers, it is recommended that an overlap of Animal Guard is used. Place the first section at the bottom of the pole, the next over the top. This will not create a lip or grabbing point for insistent climbers. Each roll is 14" x 16'.

Benefits:

- Weather resistant – Its special formulation resists sun, wind and weather for dependable long term protection.
- Durable– holds up against sharp claws
- Lightweight – easily handled by line personnel during application
- Easy to install – can be easily cut and attached



### Ordering Information:

Item Description	Item ID	UOM	Shipping Weight
14" x 16' Roll	70-140-010-010	Roll	5 lbs. per roll

## Pole Protection Products

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### Pole Impact and Abrasion Protector

Designed to help protect poles from damage caused by minor vehicle impact. Both products below can help reduce pole replacement costs, and may even help minimize customer complaints and damage claims.

### Pole Protector™

The Pole Protector is simple to install and can be utilized effectively in parking lots, on corners and in other high-traffic areas. It is also useful for poles located in school playgrounds, parks and backyards. A tough outer shell combines with an impact-absorbent inner shell to provide an excellent safeguard.

Sizes are based on the area/height of the pole to be covered and the pole's circumference. Available in 2', 4' and 6' heights. Available circumferences are 38", 44", 50", 56", 62" and 68".



## Pole Protection Products

### Ordering Information:

POLE PROTECTOR™ KIT			
Part Number	Height	Pole Circumference	Unit
70-090-110-038	2'	38"	Each
70-090-120-044	2'	44"	Each
70-090-130-050	2'	50"	Each
70-090-140-056	2'	56"	Each
70-090-150-062	2'	62"	Each
70-090-160-068	2'	68"	Each
70-090-170-038	4'	38"	Each
70-090-180-044	4'	44"	Each
70-090-190-050	4'	50"	Each
70-090-200-056	4'	56"	Each
70-090-210-062	4'	62"	Each
70-090-220-068	4'	68"	Each
70-090-230-038	6'	38"	Each
70-090-240-044	6'	44"	Each
70-090-250-050	6'	50"	Each
70-090-260-056	6'	56"	Each
70-090-270-062	6'	62"	Each
70-090-280-068	6'	68"	Each

## Pole Protection Products

### Pole Top Products

These products are designed to help protect the top of poles and cross arms from damage and decay.

#### ArmGuard™

ArmGuard is a specially modified PVC compound designed to protect the underside of utility pole cross arms from woodpecker attack.

##### Recommended Uses:

- On all new construction
- Replacement cross arms on installations suffering woodpecker damage
- As part of an above ground maintenance program

Manufactured from a custom blended polyvinyl chloride. UV light stabilizers have been added to ensure long life outdoors. This same formula has been in use for telephone cable maintenance items in Southern Texas since 1973. The bottom side of ArmGuard is curved to facilitate air flow and moisture drainage. There are four ridges along the base which add strength and allow more complete air circulation.



##### Installation:

Installation is fast and easy. Place the appropriate size ArmGuard on the bottom of the cross arm. The side legs of ArmGuard are angled to help hold it in place. Nail into place using predrilled nail holes. ArmGuard is installed during new construction or on poles already in service.

##### Dimensions:

Wall thickness—.060"

Width: 3-3/4" or 4-5/8"

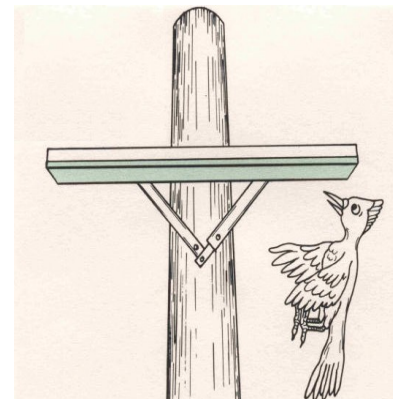
Length: 8 ft or 10 ft

Weight: 3-3/4" - .22 lbs. per foot

4-5/8" - .26 lbs. per foot

Packaging: 3-3/4" - Carton of 20

4-5/8" - Carton of 12



### Ordering Information:

Item Description	Item ID	UOM	Shipping Weight
3-3/4" x 8' - Carton of 20 pieces	70-010-001-308	Each	36 lbs. per carton
3-3/4" x 10' - Carton of 20 pieces	70-010-001-310	Each	44 lbs. per carton
4-5/8" x 8' - Carton of 12 pieces	70-010-001-408	Each	32 lbs. per carton
4-5/8" x 10' - Carton of 12 pieces	70-010-001-410	Each	39 lbs. per carton

## Pole Protection Products

### Pole Top Products

These products are designed to help protect the tops of poles from decay, caused by weathering and moisture.

### Pole Topper™

Osmose brand Pole Topper is the most effective way to combat pole top decay and deterioration caused by moisture, weathering and wood-destroying fungi. It was designed to adhere to virtually any pole top, regardless of shape, and to provide a long-lasting bond. In addition, it has been embossed with a low density polyethylene protective film to help prevent ultraviolet degradation. Pole Topper is clean, easy to use and can be stored on line trucks.

#### Recommended Uses:

- All standing poles in service
- New poles before placement
- Reset poles
- Newly cut pole top surfaces

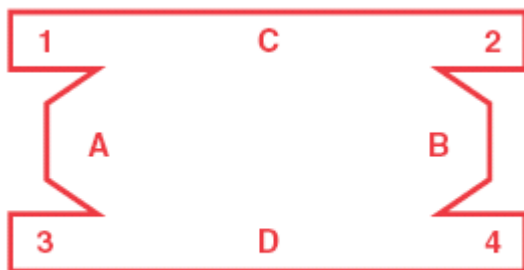
Osmose Pole Topper is a premium grade, black, non-drying, non-hardening, permanently tacky, complex “butyl mastic” material. It is designed to seal wood where air, dust, water and UV exposure are present. It is available in 12” and 16” size for distribution poles and 19” size for transmission poles.

Osmose Pole Topper has excellent physical and aging characteristics. It has very good adhesion to wood surfaces at temperatures from -60°F to 220°F. It retains its elastic properties at high and low temperatures. It does not dry out, crack, shrink or lose adhesion on aging.

Pole Toppers™ are not considered a hazardous material and do not require a MSDS.

#### Installation:

- Remove the larger white release liner to expose black mastic. (Leave smaller liner on until step 3)
- Center Pole Topper over utility pole, mastic side down, and press firmly to adhere to pole.
- Remove smaller release liner.
- Press down flaps C and D. ( See diagram below )
- Wrap tabs 1, 2, 3, and 4 around sides of pole. Make sure tabs overlap by at least 1 inch. ( See diagram below )
- Press down flaps A and B. ( See diagram below )
- Press down firmly around Pole Topper to make sure it has adhered to the utility pole.



#### Completed Application:



## Pole Protection Products

### Pole Top Products

#### Pole Topper™

Technical Data	
Active Ingredients	Carbon Black—0.90% Non-hazardous Ingredients—>99.10% Total—100.00%
Packaging:	6 per carton
Shipping Description:	Not regulated by Department of Transportation.
Weight:	12" - 10 lbs. per carton 16" - 15 lbs. per carton 19" - 20 lbs. per carton
Handling and Storage precautions:	Avoid high heat and open flames. Recommended storage temperature is between 0°C and 37.8°C (32°F - 100°F). Shelf life is 1 year. OTHER PRECAUTIONS: Store in cool dry area. Protect containers from physical damage. Keep from freezing. Keep dry.
In the event of accidental release:	Solid material. Pick up and dispose of in trash.
Waste Disposal:	Dispose of in trash. Always dispose in accordance with Federal, State and local laws.
Basic Personal Protection:  <i>For more detailed Personal Protective Measures please refer to the label &amp; MSDS Information.</i>	<b>PROTECTIVE GLOVES:</b> Cotton work gloves recommended. <b>EYE PROTECTION:</b> Wear safety glasses.
Appearance:	Black mastic.
Odor:	No Objectionable Odor
Freezing Point:	N/A
Melting Point:	N/A
Flash Point/Auto Ignition Temperature:	246.1°C (475.0°F)/ Not Determined

### Ordering Information:

Item Description	Item ID	UOM	Shipping Weight
12" - Carton of 6 each (fits most Distribution Poles up to an 8.5" pole top diameter)	70-110-020-012	Each	10 lbs. per carton
16" - Carton of 6 each (fits most Distribution Poles up to a 12" pole top diameter)	70-110-020-016	Each	15 lbs. per carton
19" - Carton of 6 each (For Transmission Poles up to a 14.5" pole top diameter)	70-110-010-019	Each	20 lbs. per carton

## Pole Protection Products

### Pole Top Products

#### CoverCap™

CoverCap pole covers offer protection from moisture and decay for in-service wooden utility pole tops.

Recommended Uses:

- All poles in service
- New poles before placement
- Reset poles
- Newly cut pole top surfaces



CoverCap pole covers are designed to protect pole tops from decay and the effects of normal weathering. It is especially applicable to installation on new poles prior to setting. It can also be installed on poles in service.

CoverCap pole covers are rugged so that they can be installed in pole owners' service yards without requiring any special handling prior to installation. They are inexpensive, durable, clean and easy to use. Manufactured from low density polyethylene, CoverCap pole covers do not constitute a source of radio interference.

For additional protection against decay apply Pole Topper Fluid to the pole top prior to installation of the CoverCap pole covers. This is recommended for poles already in service to help arrest decay. Pole Topper Fluid is available in one pint squeeze bottles for easy application and is a general use preservative containing copper naphthenate marketed under the trade name Osmose CU-89 RTU II, Pole Topper Fluid.

Design: CoverCap pole covers are circular in form, including a 1 inch overlap. In addition they have four 1 inch long tabs. Aluminum or galvanized nails are used to secure CoverCap pole covers to the pole top. Two circular ridges are provided on the inside of the cap to supply additional strength and allow proper ventilation. CoverCap pole covers are packaged 10 per carton for easy identification and neat storage.

CoverCap pole covers are available in various sizes for the pole classes listed below:

Diameter	Pole Class
6 ½"	5,6
7 ½"	4,5
8 ½"	3,4
9 ½"	2,3
10 ½"	1,2

Installation:

Application is accomplished by driving four 2" nails (not included) through the tabs. When applied on the ground, the time involved is less than a minute for one person.

## Pole Protection Products

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### Ordering Information:

#### CoverCap™

Item Description	Item ID	UOM	Shipping Weight
6 1/2" - Fits pole class 5,6 / carton of 10 each	70-130-010-065	Each	2 lbs. per carton
7 1/2" - Fits pole class 4,5 / carton of 10 each	70-130-020-075	Each	2 lbs. per carton
8 1/2" - Fits pole class 3,4 / carton of 10 each	70-130-030-085	Each	3 lbs. per carton
9 1/2" - Fits pole class 2,3 / carton of 10 each	70-130-040-095	Each	4 lbs. per carton
10 1/2" - Fits pole class 1,2 / carton of 10 each	70-130-050-105	Each	4 lbs. per carton

## Pole Protection Products

### Cable Protection

Designed to help protect aerial telephone, CATV and fiber optic cables from squirrel damage, moisture and tree abrasion.

### SquirrelGuard™

SquirrelGuard is designed to protect lead and plastic overhead telephone cables from moisture intrusion. When installed properly, it will eliminate 90-95% of the moisture from cables, thereby reducing trouble calls. SquirrelGuard reduces maintenance costs, improves reliability of service and can extend the useful life of cable.



SquirrelGuard works by acting as a shingled roof shielding cables from moisture. SquirrelGuard will help shield cables from damage caused by squirrel bites, woodpeckers, fatigue cracks, and tree limb abrasion.

SquirrelGuard is self extinguishing and can help to protect cables from falling secondary power lines.

Appearance:

SquirrelGuard blends well with existing cable plant construction whether placed on the roadside, rear lot or right-of-way toll lines.

Life Expectancy:

SquirrelGuard has proven its durability in field applications lasting ten or more years.

Composition:

SquirrelGuard is constructed of high density black polyvinyl chloride (PVC). It is formulated for outdoor use with special additives to prevent degradation from ultraviolet light.

Available in two different configurations and nine unique sizes. V-Shape SquirrelGuard is used for protection on lashed or ring-supported cable. Round SquirrelGuard is used on lashed or self-supporting cable. The following chart relates the sizes to corresponding applications:

Size (in.)	Will Fit Cable Diameter (In.) Including Strand	Application
1.5" V-Shape	0.5 to 1.25	Lashed or Ring-Supported Cable
2.5" V-Shape	1.25 to 2.25	Lashed or Ring-Supported Cable
3.25" V-Shape	2.25 to 3.0	Lashed or Ring-Supported Cable
4.5" V-Shape	3.0 to 4.0	Lashed or Ring-Supported Cable
5.12" V-Shape	4.0 and larger	Lashed or Ring-Supported Cable
1" Round	0.5 to .75	Self Supporting or Lashed Cable
1.5" Round	.75 to 1.25	Self Supporting or Lashed Cable
2.5" Round	1.25 to 2.25	Self Supporting or Lashed Cable
3.5" Round	2.25 to 3.25	Self Supporting or Lashed Cable

All V-Shape sizes come in 10 foot sections with 10 cable tie slots approximately one foot apart. Round SquirrelGuard comes in 10 foot sections with cable tie openings at each end. Sections can be easily cut to size with standard aviation type snips.

## Pole Protection Products

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### Ordering Information:

#### SquirrelGuard

Item Description	Item ID	UOM	Shipping Weight
1.5" V-Shape / 200 ft. per bundle	70-120-010-010	Ft.	24 lbs. / bundle
2.5" V-Shape / 200 ft. per bundle	70-120-010-020	Ft.	35 lbs. / bundle
3.25" V-Shape / 200 ft. per bundle	70-120-010-030	Ft.	48 lbs. / bundle
4.5" V-Shape / 100 ft. per bundle	70-120-010-040	Ft.	32 lbs. / bundle
5.125" V-Shape / 100 ft. per bundle	70-120-010-050	Ft.	48 lbs. / bundle
1" Round / 200 ft. per bundle	70-120-020-050	Ft.	19 lbs. / bundle
1.5" Round / 200 ft. per bundle	70-120-020-010	Ft.	24 lbs. / bundle
2.5" Round / 200 ft. per bundle	70-120-020-020	Ft.	33 lbs. / bundle
3.5" Round / 100 ft. per bundle	70-120-020-030	Ft.	44 lbs. / bundle

## Pole Protection Products

### Cable Protection

#### Cable Guard

Cable Guard is made from the same durable material as SquirrelGuard and is manufactured in 8" lengths for use in T-zones and other hard-to-fit applications.



### Ordering Information:

Item Description	Item ID	UOM	Shipping Weight
1" R x 8" / 15 pieces per package	70-020-010-108	Pkg	1 lb. / pkg
1.5" R x 8" / 10 pieces per package	70-020-010-158	Pkg	1 lb. / pkg
2.5" R x 8" / 10 pieces per package	70-020-010-258	Pkg	1 lb. / pkg

## Pole Protection Products

### Cable Protection

#### Flex Guard

Flex Guard is a flexible corrugated polyethylene tube designed for covering service cable drops. Special additives to the compound help this product resist UV degradation. Flex Guard is available in three widths, 3/4", 1", and 2", delivered in 10 foot lengths, and is split lengthwise to facilitate easy installation.

Flex Guard can be installed by one person using either a bucket, truck or ladder. After gaining access to cable drops at either the T-Zone or the Terminal, the installer places the guard over the drops so that complete coverage is achieved leading out of the terminals and across the pole face. The guard is then secured with cable ties and mounting bases.

The first procedure to follow before applying the Flex Guard is to organize drops exiting terminal (strand or pole mounted) so that a single (or in some cases multiple) path is created. It is preferable to maintain one path so that only one section of Flex Guard is required. Existing drive rings are removed and replaced with mounting bases. There will be applications where multiple lengths (and possibly widths) will be required. Once drops are organized, measure the length that will be required to cover and cut length of Flex Guard to fit. Drops are then placed into the Flex Guard (via slit opening) and the guard is wrapped around to attain full coverage and custom fit. The Flex Guard is then secured by installing cable ties around guard, through mounting bases and secured. Additional ties are to be applied every ten to twelve inches to maintain closure (mounting base not required at these locations).



FLEX GUARD  
SIZES AND APPLICATION

<u>Approx. Wt. Lbs./Ft</u>	<u>Drops/Guard</u>	<u>Application</u>
.05	1 to 3 drops	Single or
.09	2 to 4 drops	Multiple Drop
.17	3 or more drops	Installations

### Ordering Information:

Item Description	Item ID	UOM	Shipping Weight
3/4" - pre-cut in 10 ft. sections	70-040-010-034	Ft.	0.5 lb per section
1" - pre-cut in 10 ft. sections	70-040-010-010	Ft.	0.75 lbs per section
2" - pre-cut in 10 ft. sections	70-040-010-020	Ft.	1.25 lbs. per section

## Pole Protection Products

### Groundwire and Guywire Protection

#### Groundwire Molding- Polyethylene

Osmose Groundwire Molding is manufactured from durable, non-conductive polyethylene material. This molding is designed for years of protection and retards UV degradation. The flexibility of the material makes it easy to install on irregular groundwire.

Groundwire Molding is manufactured in 8' sections and packaged in cartons of 50 pieces. It is available in the following sizes:

- 1/2" x .100
- 3/4" x .100

Installation:

- Check groundwire to make sure it's connected.
- Place Groundwire Molding over the groundwire.
- Secure it with the appropriate staple.



### Ordering Information:

Item Description	Item ID	UOM	Shipping Weight
1/2" x .100" x 8' PE—Bundle of 50 each	70-050-001-108	Each	24 lbs./bundle
3/4" x .100" x 8' PE—Bundle of 50 each	70-050-003-108	Each	32 lbs./bundle
Staples (for 1/2" molding) - 3/4" x 1-1/2" (100/crtn)	90-050-230-020	Carton	12 lbs./carton
Staples (for 3/4" molding) - 1-1/16" x 2" (100/crtn)	90-050-230-030	Carton	45 lbs./carton

## Pole Protection Products

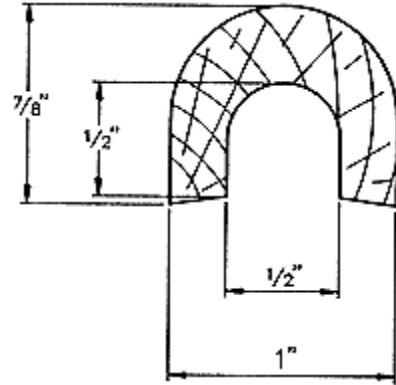
### Groundwire and Guywire Protection

#### Groundwire Molding- Wooden

Osmose Groundwire Wooden Molding is manufactured from Oak or Douglas Fir.

Unless otherwise specified, all moldings are treated with preservative by the pressure process according to American Wood Preservers' Association Standards, with Pentachlorophenol in heavy hydrocarbon solvent per AWPA, P-8, P-9 Type A.

Groundwire molding is manufactured in 8' sections and sold in bundles of 2,000 pieces.



#### Ordering Information:

Item Description	Item ID	UOM	Shipping Weight
Oak 7/8"x1"x1/2"x8' Wooden—2,000/bundle	BR-100OAK	Each	1.4 lbs/piece
FIR 7/8"x1"x1/2"x8' Wooden—2,000/bundle	BR-100FIR	Each	1.7 lbs/piece
Staples (for 1/2" molding) - 3/4" x 1-1/2" (100/crtn)	90-050-230-020	Carton	12 lbs./carton
Staples (for 3/4" molding) - 1-1/16" x 2" (100/crtn)	90-050-230-030	Carton	45 lbs./carton