

Wildlife mitigation

for a reliable grid

Power Line Sentry

Sicame Group

Network protection
Through wildlife protection

Product commitments

V-0 flame retardant

Quick and easy installs

Hotstick friendly

Universal or adjustable

Durable and Secure

Proven effective

At power line sentry we know that securing a reliable electrical grid and protecting the environment are not mutually exclusive.

That's why our solutions are rooted in collaborations among electrical engineers, wildlife biologists, environmental specialists, and operations teams; why we insist on rigorous material testing that surpasses industry standards; and why every product delivers superior coverage, durability, and effectiveness.

Because our products are used at this intersecting point between the grid and the environment we feel it is our responsibility to provide a safe interaction for both sides. Our approach embodies this understanding and our solutions reflect it.

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Hawk Eye™
Bird flight diverters





Unique design supports research proving that visibility in low light is the most important aspect in preventing avian collisions.

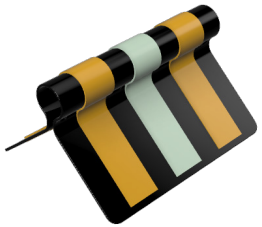
V-O flame retardant

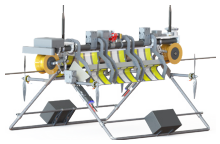
Very hotstick friendly

Rated for systems up to 345 kV

Largest surface area of reflective material in the industry

- Tent shape and unique color combination provides maximum visibility from all angles and in low-light conditions
- Fluorescent prismatic yellow bands are mirrored to effectively reflect light (most surface area in industry)
- 24 hour glow in the dark band emits light in low light conditions (most surface area in industry)
- Rated for systems up to 345 kV with no corona on direct conductor applications
- Movement effect without mechanical components to potentially break/fail
- Retention hose cradles conductor without pinching, grinding or causing damage to OPGW or conductor
- UL-94 V-0 flame retardant material
- Hotstick friendly
- Safe, automatic, accurate, efficient installation + removal available with Fulcrum Air LineFly





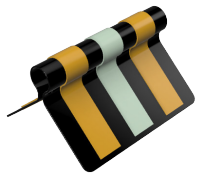
Linefly™ installation robot



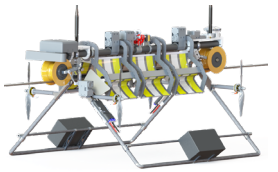
Inside view

videos + more





Hawk Eye™ bird flight diverter BFD-050



Hawk Eye™ Linefly™ installation robot



Hotstick installation tool BFD-AT-050-075

SKU	Length	Height	System kV	Conductor range	Conductor diameter	Min qty
BFD-025	6”/15.24 cm	3”/7.62 cm	<345 kV	#6-#4	0.18”-0.26” (4.6 mm-6.6 mm)	50
BFD-050	6”/15.24 cm	3”/7.62 cm	<345 kV	#4-300+OPGW	0.25”-0.68” (6.4 mm-17.3 mm)	50
BFD-075	6”/15.24 cm	4”/10.16 cm	<345 kV	336-795 MCM	0.69”-1.09” (17.3 mm-27.8 mm)	50
BFD-150	6”/15.24 cm	5”/12.7 cm	<345 kV	850-1780 MCM	1.1”-1.5” (27.9 mm-38.1 mm)	50
BFD-051/ Guy wire marker *	6”/15.24 cm	3”/7.62 cm	<345 kV	#4-300+OPGW	0.25”-0.68” (6.4 mm-17.3 mm)	50
BFD-076/ Guy wire marker *	6”/15.24 cm	4”/10.16 cm	<345 kV	336-795 MCM	0.69”-1.09” (17.3 mm-27.8 mm)	50

* Guy wire marker includes retention clip.

Tools	
BFD-AT-050-075	Hotstick compatible installation tool for BFD-050 and BFD-075
BFD-AT-150	Hotstick compatible installation tool for BFD-150

Tests	Results
UL 94 // Flammability of plastic materials	V-0/5VA (UL file number: E175765)
IEEE 1656 5.6/ASTM 4329/ASTM G-154 UV aging	3,000 hrs
ASTM D-638/D-1822 // Tensile strength @ yield	900 PSI (62.1 MPA)
ASTM D-256/Notched izod impact	12.5 Ft-LB/IN (670 J/M)
ASTM D648/Deflection temperature under load @ 66 PSI	270°F/132°C
24 hour photo luminescent-compliance	DIN 67510, ASTM 2072, PSPA Class A/B/C/D, APTA SS-PS-004-99 Rev 2/3, ICC 2009/201202015 IBC/IFC, UL 1994
Regulatory	**ROHS compliant**

Concentrated load data for PLS-CADD available upon request
wind and ice load data available upon request.

01 | Collision prevention

Phase markers



Phase markers are used for identification and can be customized with numbers, letters, logos, etc.

V-O flame retardant

Very hotstick friendly

Rated for systems up to 345 kV

Reusable + customizable

- Snap fit design eliminates extra hardware
- Reusable markers identify individual phases during construction and maintenance
- Option to customize sets with logos, etc
- Rated for systems up to 345 kV with no corona on direct conductor applications
- No mechanical components to break/fail
- Retention hose cradles conductor without pinching, grinding or causing damage to OPGW or conductor
- UL-94 V-0 flame retardant material
- Hotstick friendly



videos + more



Phase marker
BFD-050-3S-ABC



Hotstick installation tool
BFD-AT-050-100

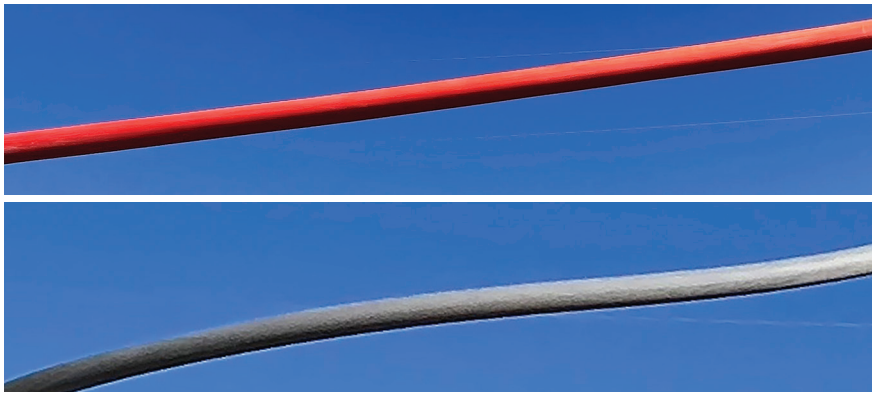
SKU	Length	Height	System kV	Conductor range	Conductor diameter
BFD-050-3S-ABC	3"/7.62 cm	3"/7.62 cm	<345 kV	#4-300+OPGW	10 sets (30 total)
BFD-075-3S-ABC	3"/7.62 cm	4"/10.16 cm	<345 kV	336-795 MCM	10 sets (30 total)

Tools	
BFD-AT-050-075	Hotstick compatible installation tool for BFD-050-3S-ABC and BFD-075-3S-ABC

Tests	Results
UL 94 // Flammability of plastic materials	V-0 / 5VA (UL file number: E175765)
IEEE 1656 5.6/ASTM 4329/ASTM G-154 UV aging	3,000 hrs
ASTM D-638/D-1822 // Tensile strength @ yield	900 PSI (62.1 MPA)
ASTM D-256/Notched izod impact	12.5 FT-LB/IN (670 J/M)
ASTM D648/Deflection temperature under load @ 66 PSI	270°F/132°C
24 hour photo luminescent-compliance	DIN 67510, ASTM 2072, PSPA Class A/B/C/D, APTA SS- PS-004-99 Rev 2/3, ICC 2009/201202015 IBC/IFC, UL 1994
Regulatory	**ROHS compliant**

Enviroguard™ Rip-stop™

Insulating line hose



Line hose prevents electrocutions by insulating dangerous energized areas. It can be used on any bare or non-insulated area or wire to add insulating protection.

V-O flame retardant

Very hotstick friendly

Rated at 35 kV insulation

Only tear resistant line hose in the industry

- Rip-stop™ tear resistant vulcanized silicone - only one of its kind
- Best in class silicone Rip-stop™ line hose does not tear/deteriorate/get hard/brittle
- Protects lines from contact-caused outages and adverse environmental conditions including vegetation, wildlife, weather, etc
- Stays easily pliable in all weather conditions // -40˚C to 175˚C operating temperatures
- Available in gray and hi-viz orange or yellow
- 50% overlap provides superior coverage
- UL 94 V-0 flame retardant material
- Easy hotstick or glove install
- Note: Not for human protection



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SKU	Color	Length	I.D.	kV rating	ACSR range	Conductor range	Min qty
LH-038-50		50'/15.24 m	3/8"/.95 cm	<25 kV	#6-2/0 ACSR	.175"-5"/44 cm-1.27 cm	-
LH-038-50-KT *		50'/15.24 m	3/8"/.95 cm	<25 kV	#6-2/0 ACSR	.175"-5"/44 cm-1.27 cm	-
LH-063-50		50'/15.24 m	5/8"/1.59 cm	<34.5 kV	1/0-336 ACSR	.375"-.7"/.95 cm-1.78 cm	-
LH-063-50 KT *		50'/15.24 m	5/8"/1.59 cm	<34.5 kV	1/0-366 ACSR	.375"-.7"/ 95 cm-1.78 cm	-
LH-075-50		50'/15.24 m	3/4"/1.91 cm	<34.5 kV	266-477 ACSR	.6"-.9"/1.52 cm-2.29 cm	-
LH-075-50-KT *		50'/15.24 m	3/4"/1.91 cm	<34.5 kV	266-477 ACSR	.6-.9"/1.52 cm-2.29 cm	-
LH-100-25		25'/7.62 m	1"/2.54 cm	<44 kV	397-715 ACSR	.74"-1.1"/1.88 cm-2.8 cm	-
LH-100-25-KT *		25'/7.62 m	1" / 2.54 cm	<44 kV	397-715 ACSR	.74"-1.1"/1.88 cm-2.8 cm	-
LH-125-25		25'/7.62 m	1 1/4"/3.18 cm	<44 kV	715-1192 ACSR	1"-1.35"/2.54 cm-3.43 cm	-
LH-125-25-KT *		25'/7.62 m	1 1/4"/3.18 cm	<44 kV	715-1192 ACSR	1"-1.35"/2.54 cm-3.43 cm	-
LH-150-25		25'/7.62 m	1 1/2"/3.81 cm	<69 kV	1193-1780 ACSR	1.3"-1.6"/3.3 cm-4.06 cm	-
EG-075-ORG-12		12'/3.36 m	3/4"/1.91 cm	<34.5 kV	266-477 ACSR	.6"-.9"/1.52 cm-2.29 cm	5
EG-100-ORG-12		12'/3.36 m	1"/2.54 cm	<44 kV	397-715 ACSR	.74"-1.1"/1.88 cm-2.8 cm	5
EG-125-ORG-12		12'/3.36 m	1 1/4"/3.17 cm	<44 kV	715-1192 ACSR	1"-1.35"/2.54 cm-3.43 cm	5
EG-075-YWL-12		12'/3.36 m	3/4" 1.91 cm	<34.5 kV	266-477 ACSR	.6"-.9"/1.52 cm-2.29 cm	5
EG-100-YWL-12		12'/3.36 m	1"/2.54 cm	<44 kV	397-715 ACSR	.74"-1.1"/1.88 cm-2.8 cm	5
EG-125-YWL-12		12'/3.36 m	1 1/4"/3.17 cm	<44 kV	715-1192 ACSR	1"-1.35"/2.54 cm- 3.43 cm	5

* Kits include installation tool.

Tools	
LHT-038	Hotstick compatible installation tool for LH-038
LHT-038-R	Hotstick compatible installation tool set for full span installation of LH-038 rolls
LHT-063-075	Hotstick compatible installation tool for LH-063 and LH-075
LHT-100-125	Hotstick compatible installation tool for LH-100 and LH-125
LHT-150	Hotstick compatible installation tool for LH-150

Tests	Results
IEEE 1656/5.2 Wet withstand	>20 kV
Tear strength	46.5 KN/M
ASTM D257-14 Volume resistivity	5.20X10^16 OHMS/cm
ASTM D257-14 Surface resistance	1.61X10^12 OHMS
ASTM D257-14 Insulation resistance	2.94X10^12 OHMS
ISO 37:2017 Elongation at break	414%
ISO 7619-1:2010 Shore hardness	62 Shore A
ASTM D573-04 Heat resistance	200°C/72 hrs 414% elongation, 65 shore A
IEEE 1656/5.6 Ultraviolet aging/ASTM G-155	1,000 hrs
UL 94 Flammability of plastic materials	V-0
ASTM D149 Dielectric strength	287 V/MIL (11.3 kV/mm)
ASTM D 3638 Comparative tracking index	526 V
ASTM D150-18 Dielectric constant and dissipation factor	2.96 // 0.004
ISO 812 Brittleness temperature	>-94°F (-70°C)

02 | Insulating covers

Fusing tape

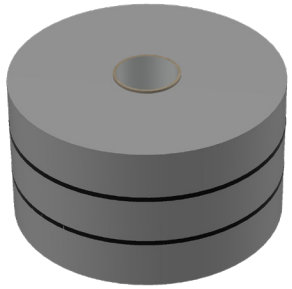


Fusing tape provides an irreversible bond that is resistant to moisture, oxygen, ozone, UV and corona over a wide temperature range.

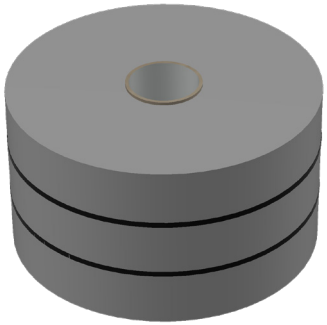
V-O
flame retardant

Rated for <69 kV
insulation

- Self fuses to seal
- Provides irreversible bond, but bonds only to itself
- Will not tear once sealed
- Protects over a wide temperature range (-60°F-400°F)
- Insulation barrier is resistant to moisture, oxygen, ozone, UV and corona
- >15 kV phase-to-ground insulation rating per layer when installed with 2/3 overlap and 10% stretch
- >69 kV insulation available with additional layers
- Packaged in 2” x 36’ roll - trim as needed
- Easy, clean install - no sticky residue
- UL 94 V-0 flame retardant material



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Fusing insulation tape
FTP-200

SKU	Length	Width	kV rating	Min qty
FTP-200	36’/10.97 m	2”/.05 cm	<15 kV per layer, <69 kV with multiple layers	12

Tests	Results
ASTM D142 Elongation at break	500%
ASTM D149 Dielectric strength	684 V/MIL (26.9 kV/mm)
ASTM D142 Tensile strength	1458 PSI (10053 kV/mm)
Temperature range	-60°F to -400°F (-51°C to -204°C)

02 | Insulating covers

Universal bushing + equipment covers



Equipment covers insulate connection points between the conductor and the equipment to prevent electrocution events and power outages.

V-O flame retardant

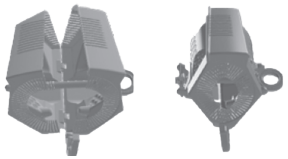
Very hotstick friendly

Rated at <35 kV insulation

Adjusts to fit

- Only adjustable cover in the industry
- Small cover fits sheds up to 4” (10.16 cm) wide x 6” (15.24 cm) tall to fit most transformer bushings
- Medium cover fits sheds up to 5.5” (13.97 cm) wide x 8” (20.32 cm) tall to fit most reclosers and regulators
- Clam shell design adjusts to the size of the equipment for a tight and secure universal fit
- No-wear hinges provide superior durability (no tape needed!)
- Multiple entry/exit options
- Full topside closure for superior salt, air pollution, ozone, dust and other contaminate protection
- Multiple hotstick attachment points
- Easy hotstick install - no locking pins
- Small cover is infrared friendly
- UL 94 V-0 flame retardant material





Open vs Closed
Clam shell design

videos + more



Medium equipment cover
BC-D02



Small equipment cover
BC-D01

SKU	Shed diameter	Rod diameter	Height	kV rating	Min qty
BC-D01	<4”/10.16 cm	<2.5”/6.35 cm	<6”/15.24 cm	<35	20
BC-D02	<5.5”/13.97 cm	<3”/7.62 cm	<8”/20.32 cm	<35	20

Tests	Results
IEEE 1656/5.2 Wet withstand	>18 kV
IEEE 1656/5.6 Ultraviolet aging	5,000 hrs
UL 94 Flammability of plastic materials	V-0
ASTM D149 Dielectric strength	467 V/MIL (18.4 kV/mm)
ASTM D2303 Inclined plane tracking and erosion: initial tracking (variable voltage)	4.0 kV
ASTM D638 Tensile strength @ yield	2,400 PSI (17 MPA)
ASTM D790 Flexural modulus	140,000 PSI (966 MPA)
Regulatory	**Rohs compliant**

Universal cutout + loadbreak cutout covers





Cutout covers insulate exposed portions of cutout equipment to prevent electrocution events and power outages.

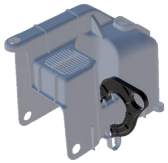
V-O flame retardant

Very hotstick friendly

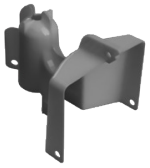
Rated at <35 kV insulation

Adjusts to fit

- Only adjustable cover in the industry
- Standard cover clips provide height adjustment for universal secure fit on most polymer and porcelain 100 and 200 amp cutouts
- Loadbreak cover has adjustable internal diameter, providing a universal secure fit on ABB, Hubbell- Chance, Aluma-Form, and Maclean style loadbreak cutouts (shed widths up to 5")
- Neck adjusts to the size of the cutout for a tight and secure universal fit
- Fully covers all energized portions
- Allows insulator sheds to naturally clean
- Open design allows for easy access during inspections
- Standard cover allows for loadbreak tool access
- UL 94 V-0 flame retardant material
- Hotstick friendly, snaps into position, no locking pins



Loadbreak cover



Standard cover



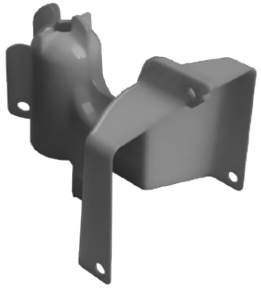
Loadbreak Raptor Claw™



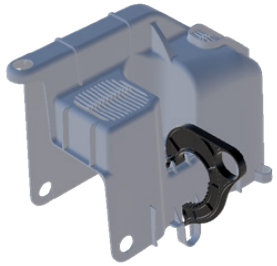
standard cover clip

videos + more





Universal cutout cover
CT-D02



Universal loadbreak cutout cover
CT-D04

SKU	Fit	Shed diameter	kV rating	Min qty
CT-D02	100 and 200 amp polymer and porcelain cutouts	<3"/7.62 cm	<35	20
CT-D04	ABB, Hubbell-Chance, Aluma-Form, and Maclean style loadbreak cutouts (shed widths up to 5")	<5"/12.7 cm	<35	20

Tests	Results
IEEE 1656/5.2 Wet withstand	>18 kV
IEEE 1656/5.3 Wet power frequency flashover	>95%
IEEE 1656/5.4 Lightning impulse withstand	125 kV
IEEE 1656/5.5 Cold temperature test	Passed/-25°C
IEEE 1656/5.6 Ultraviolet aging	5,000 hrs
Wind retention	>90 MPH
UL 94 Flammability of plastic materials	V-0
ASTM D149 Dielectric strength	467 V/MIL (18.4 kV/mm)
ASTM D2303 Inclined plane tracking and erosion: initial tracking (variable voltage)	4.0 kV
ASTM D638 Tensile strength @ yield	2,400 PSI (17 MPA)
ASTM D790 Flexural modulus	140,000 PSI (966 MPA)
Regulatory	**Rohs compliant**

Flexible sleeve insulator covers



Flexible insulator covers protect energized insulator neck equipment as well as the conductor, the flexible sleeves can accommodate any system configuration

V-O flame retardant

Very hotstick friendly

Rated at <69 kV insulation

Only flexible sleeve cover in the industry

- Available in standard pin, clamp top or vise top cap fitments
- Arrives in 1 piece - no chance for sleeve separation, no on-site assembly
- Flexible silicone Rip-stop™ line hose sleeves accommodate all structure configurations/angles
- Minimum 70” (178 cm) of coverage provides superior protection
- Covers energized portion of the insulator, allowing sheds to naturally clean and be easily viewed during inspections
- Double top versions are adjustable in width for a perfect fit
- UL 94 V-0 flame retardant material
- Hotstick friendly, snaps into position, no locking pins



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SKU	Type	Length	I.D.	Insulator	kV rating	Min qty
CC-DFLEXCF-100	CF	91-95 0”/2.03 m	1”/2.54 cm	Double ANSI 55-3, 55-4, 55-5, 55-6, 55-7	<35	5
CC-DFLEX-CF-125	CF	91-95”/2.03 m	1 1/4”/3.17 cm	Double ANSI 55-3, 55-4, 55-5, 55-6, 55-7	<35	4
CC-DFLEX-JK-100	JK	91-95”/2.03 m	1”/2.54 cm	Double ANSI 55-3, 55-4, 55-5, 55-6, 55-7	<35	5
CC-DFLEX-JK-125	JK	91-95”/2.03 m	1 1/4”/3.17 cm	Double ANSI 55-3, 55-4, 55-5, 55-6, 55-7	<35	4
CC-DFLEX-TR-100	Trunnion	91-95”/2.03 m	1”/2.54 cm	Trunnion	<44	5
CC-DSTFLEX-CF-100	CF	91-95”/2.03 m	1”/2.54 cm	Double side tie ANSI 55-3, 55-4, 55-5, 55-6, 55-7	<35	5
CC-DSTFLEX-CF-125	CF	91-95”/2.03 m	1 1/4”/3.17 cm	Double side tie ANSI 55-3, 55-4, 55-5 55-6, 55-7,	<35	4
CC-STFLEX-CF-100	CF	70”/1.8 m	1”/2.54 cm	ANSI 55-3, 55-4, 55-5, 55-6, 55-7	<35	10
CC-STFLEX-CF-125	CF	70”/1.8 m	1 1/4”/3.17 cm	ANSI 55-3, 55-4, 55-5, 55-6, 55-7	<35	8
CC-FLEX-CF-100	CF	70”/1.8 m	1”/2.54 cm	ANSI 55-3, 55-4, 55-5, 55-6, 55-7	<35	10
CC-FLEX-CF-125	CF	70”/1.8 m	1 1/4”/3.17 cm	ANSI 55-3, 55-4, 55-5, 55-6, 55-7	<35	8
CC-FLEX-JK-100	JK	70”/1.8 m	1”/2.54 cm	ANSI 55-3, 55-4, 55-5, 55-6, 55-7	<35	10
CC-FLEX-JK-125	JK	70”/1.8 m	1 1/4”/3.17 cm	ANSI 55-3, 55-4, 55-5, 55-6, 55-7	<35	8
CC-FLEX-TR-100	Trunnion	70”/1.8 m	1”/2.54 cm	Trunnion	<44	10
CC-FLEX-TR-125	Trunnion	70”/1.8 m	1 1/4”/3.17 cm	Trunnion	<44	10
CC-FLEX-TR-125-69	Trunnion	70”/1.8 m	1 1/4”/3.17 cm	Trunnion	<69	10
CC-FLEX-UCT-125	Clamp top	70”/1.8 m	1 1/4”/3.17 cm	Bolt actuated top clamp	<46	10
CC-FLEX-UVT-125	Vise top	70”/1.8 m	1 1/4”/3.17 cm	Vise top	<35	10
CC-CF *	CF	21”/53 cm	-	ANSI 55-3, 55-4, 55-5, 55-6, 55-7	<35	25
CC-JK *	JK	21”/53 cm	-	ANSI 55-3, 55-4, 55-5, 55-6, 55-7	<35	25
CC-TR *	Trunnion	21”/53 cm	-	Trunnion	<69	10

* Cap with two retention sleeves for installation over line hose.

Tool	
CC-FLEX-AT-K	Hotstick compatible installation tool set for all flexible conductor covers

Tests	Results
IEEE 1656/5.2 Dry withstand	>20 kV
IEEE 1656/5.6 Ultraviolet aging/ASTM G-155	1,000 hrs
ASTM D149 Dielectric strength	938 V/MIL (36.9 kV/mm)
ASTM D 3638 Comparative tracking index	526 V
ASTM D-638/D-1822 Original tensile impact	56.7 FT LB/SQ IN
ASTM D-638/D-1822 Weathered tensile strength	51.04 FT LB/SQ IN

02 | Insulating covers

Rigid sleeve insulator covers



standard insulator covers protect energized insulator neck equipment as well as the conductor.

V-O flame retardant

Very hotstick friendly

Rated at <69 kV insulation

- Snap fits into position
- Options for all types of insulator necks
- Minimum 70” (178 cm) of coverage provides superior protection
- Covers energized portion of the insulator, allowing sheds to naturally clean and be easily viewed during inspections
- Double top versions are adjustable in width for a perfect fit
- UL 94 V-0 flame retardant material
- Hotstick friendly, snaps into position, no locking pins



Single cap Double cap

videos + more

SKU	Type	Length	Insulator	kV rating	Min qty
CC-DST-CF	CF	80”/2.03 m	Double side tie ANSI 55-3, 55-4, 55-5, 55-6, 55-7	<35	5
CC-DST-JK	JK	80”/2.03 m	Double side tie ANSI 55-3, 55-4, 55-5, 55-6, 55-7	<35	5
CC-DTT-CF	CF	80”/2.03 m	Double top tie ANSI 55-3, 55-4,55-5, 55-6, 55-7	<35	5
CC-DTT-JK	JK	80”/2.03 m	Double top tie ANSI 55-3, 55-4,55-5, 55-6, 55-7	<35	5
CC-STT-CF	CF	80”/.03 m	Single top tie ANSI 55-3, 55-4, 55-5, 55-6, 55-7	<35	10
CC-STT-CF-18	CF	42”/1.07 m	Single top tie ANSI 55-3, 55-4, 55-5, 55-6, 55-7	<35	25
CC-STT-JK	JK	80”/2.03 m	Single top tie ANSI 55-3, 55-4, 55-5, 55-6, 55-7	<35	10
CC-STT-JK-18	JK	42”/1.07 m	Single top tie ANSI 55-3, 55-4, 55-5, 55-6, 55-7	<35	25
CC-STT-TR	Trunnion	80”/2.03 m	Trunnion	<38	10
CC-STT-TR-18	Trunnion	42”/1.07 m	Trunnion	<38	10
CC-STT-TR-HD	Trunnion	42”/1.07 m	Trunnion	<38	10
CC-CF *	CF	21”/53 m	ANSI 55-3, 55-4, 55-5, 55-6, 55-7	<35	25
CC-JK *	JK	21”/53 m	ANSI 55-6, 56-1, 56-6, 56-7, 56-2, 56-3	<35	25
CC-TR *	Trunnion	21”/53 m	Trunnion	<69	10

* Cap with two retention sleeves for installation over line hose.

Tool	
CC-AT	Hotstick compatible installation tool for all standard sleeves
CC-AT-HD	Hotstick compatible installation tool for HD sleeve conductor cover CC-STT-TR-HD

Tests	Results
IEEE 1656/5.2 Dry withstand	>20 kV
IEEE 1656/5.6 Ultraviolet aging/ASTM G-155	1,000 hrs
ASTM D149 Dielectric strength	938 V/MIL (36.9 kV/mm)
ASTM D 3638 Comparative tracking index	526 V
ASTM D-638/D-1822 Original tensile impact	56.7 FT LB/SQ IN
ASTM D-638/D-1822 Weathered tensile strength	51.04 FT LB/SQ IN

02 | Insulating covers

Pole Armor™ squirrel + woodpecker deterring pole wrap



Pole wrap is a cost effective solution for deterring climbing animals from interference with energized connections and equipment.

V-O option

Rated at <30 kV insulation

Tallest coverage in the industry

- Smooth, glossy exterior deters climbing animals (squirrels, raccoons, opossums, iguanas, etc) on poles and substation fencing
- Prevents woodpeckers from landing/ attaching to the surface and causing structural damage to the pole
- Textured interior helps prevent accelerated pole rot - only one of its kind in the industry
- 30” (76 cm) of coverage, can be overlapped for extended coverage
- UV resistant polymer prevents accelerated weathering
- Lineman climbable/affable
- Non conductive - provides <30 kV insulation per layer
- UL 94 V-0 flame retardant material available

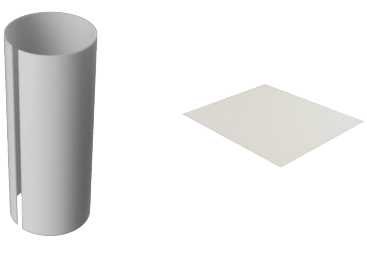


Gray pole wrap

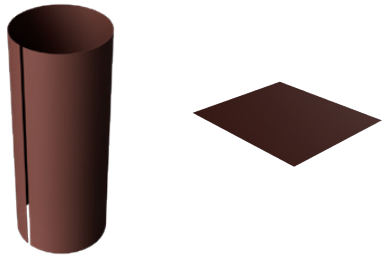


Brown pole wrap

videos + more



Pole wrap PW-040-1-G



Pole wrap PW-040-1

SKU	Length	Height	Pkg	Color	kV rating	Min qty
PW-040-1	100’/2.54 m	30”/76.2 cm	1 Roll	●	<30	5
PW-040-1-2642	42”/1.07 m	26”/66.04 cm	20 Sheets	●	<30	-
PW-040-1-3	36”/.91 m	30”/76.2 cm	20 Sheets	●	<30	-
PW-040-1-G	100’/2.54 m	30”/76.2 cm	1 Roll	●	<30	5
PW-040-1-3-G	36”/.91 m	30”/76.2 cm	20 Sheets	●	<30	-

Tests	Results
ASTM D-149 Dielectric strength	>30 kV @ .040"
ASTM D1822 Tensile impact	>200 FT-LB/IN
ASTM D746 Low temperature brittleness	-79°C
ASTM D1693 Environmental stress crack resistance	>1,000 hrs

Squirrel vs Pole Wrap research validation video

03 | Pole Armor™ pole wrap

Pole Armor™ hi-viz wrap





Highly visible contrasting design alerts workers of possibly dangerous areas.

V-O
flame retardant

- Retro-reflective stripes angled on bright white pole wrap
- Provides intense visual contrast via color, texture and surface area
- Designed to provide ample caution to workers in electrical utilities, agriculture, construction, etc
- Increases the time and distance available for workers to divert away from potentially dangerous power poles and other structures
- UL 94 V-0 flame retardant material



SKU	Length
PW-HVZ-11-20	11" x 20" (30 cm x 51 cm)

Tests	Results
UL 94 Flammability of plastics	V-0
ASTM D-149 Dielectric strength	>30 kV @ .040"
ASTM D1822 Tensile impact	>200 ft-lb/in
ASTM D746 Low temperature brittleness	-76ºC
ASTM D1693 Environmental stress crack resistance	>1,000 hrs

videos + more

Hi-viz safety pole wrap

03 | Pole Armor™ pole wrap

Pole Armor™ fire protection wrap



Fire retardant wraps stop fires from traveling up utility power poles/high-risk structures and causing further damage.

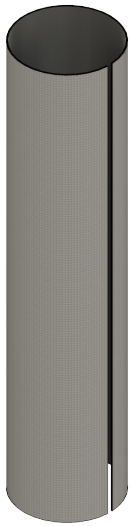
V-O flame retardant

Rated for all system voltages

- Intumescent material expands to provide thermal insulation for wood, composite and steel poles during a fire event
- Material is engineered to form a barrier that stops the spread of flames and maintain pole surface temperature under 400°F (204°C)
- Outer surface can be exposed to flames/temperatures up to 2000°F (1100°C) for up to 5 minutes
- Wide range of applications including power poles, cross arms, railroad bridges and other high risk fire zone structures/objects
- Flexible and easy to install manually or robotically with Fulcrum Air FRM-100, robot functions on both horizontal and vertical poles
- UV/weather resistant material designed to sustain extreme climates
- UL 94 V-0 flame retardant material



videos + more



SKU	Dimensions
PW-FP-24	24” x 100’/61 cm x 30.5 m
PW-FP-36	36” x 100’/91 cm x 30.5 m

Tests	Results
UL 94 Flammability	V-0
ASTM D-149 Dielectric strength	TBA
ASTM D1822 Tensile impact	>200 ft-lb/in
ASTM Temperature range	< 2000ºF (1100ºC)
ASTM D 4329 Accelerated aging	5000 hrs

03 | Pole Armor™ pole wrap

Raptor Guard™ "X"

Perching deterrents





Preventing outages on distribution poles requires blocking the air gap and the potential of both phase-to-ground and phase-to-phase contact.

V-O flame retardant

Very hotstick friendly

Rated for systems up to 138 kV

- "X" shape isolates energized danger zones and blocks air gaps
- Blocks both phase-to-ground and phase-to-phase contact
- Top portion of the "X" design restricts take-off and landing ability for birds with large wing spans
- Design deters perching, as proven by live flight cage raptor tests conducted in collaboration with the Rocky Mountain Raptor Program
- Magnetic hotstick install option available
- UL 94 V-0 flame retardant material



Slip on Raptor Guard™



Vertical Raptor Guard™

videos + more



Raptor Guard™ "X" RGSO-24

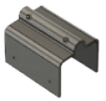


Vertical Raptor Guard™ "X" RGVT-24

Base options



Flat



Slip on



Vertical



Hotstick friendly



Angle iron

SKU	Coverage	Mount type	Min qty
RGFL-12	22"/55.88 cm	Flat mount	25
RGSO-12	22"/55.88 cm	3 3/4"/9.56 cm cross arm - slip on	25
RGHS-12	22"/55.88 cm	3 3/4"/9.56 cm cross arm - hotstick	25
RGAN-12	22"/55.88 cm	Angle iron	25
RGFL-16	26"/66.04 cm	Flat mount	25
RGSO-16	26"/66.04 cm	3 3/4"/9.56 cm cross arm - slip on	25
RGHS-16	26"/66.04 cm	3 3/4"/9.56 cm cross arm - hotstick	25
RGFL-24	34"/88.36 cm	Flat mount	20
RGSO-24	34"/88.36 cm	3 3/4"/9.56 cm cross arm - slip on	25
RGVT-24	34"/88.36 cm	Vertical pole mount	20
RGVT-24-W	34"/88.36 cm	Vertical pole mount	20
RGHS-24	34"/88.36 cm	3 3/4"/9.56 cm cross arm - hotstick	20
RGAN-24	34"/88.36 cm	Angle iron	20
RGFL-36	46"/116.84 cm	Flat mount	20
RGSO-36	46"/116.84 cm	3 3/4"/9.56 cm cross arm - slip on	20
RGEX	+10"/25.4 cm	Extension for RGSO-36	50
RGPT	Pole top	Vertical pole mount with pole mount insulators	35
RGPT-2	Pole top	Vertical pole mount without pole mount insulators	35

Tests	Results
UL 651	Weather resistant
ASTM D635 Flammability	Self extinguishing
UL 94 Flammability	V-0
ASTM D149 Dielectric constant	544v/mil

04 | Raptor Guard™ perching prevention

Raptor Guard™ spikes

Perching excluders



Perching excluders on transmission structures isolate dangerous energized areas and deter birds of prey from using structures as hunting perches.

V-O flame retardant

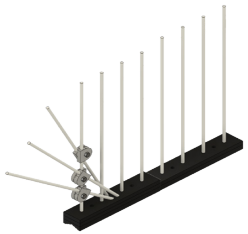
Very hotstick friendly

Rated for all voltages

- Blunt-tipped solid fiberglass spikes deter perching, as proven by live flight cage raptor tests conducted in collaboration with the Rocky Mountain Raptor Program
- Engineered to maintain structural integrity under extreme environmental conditions for decades
- Durability and effectiveness have been highlighted in pilot programs by the Washington State Fish and Wildlife and the bureau of land management
- Optional side extension covers vertical insulators or ends of cross arm
- Modular design allows for custom lengths
- Magnetic hotstick install option available
- UL 94 V-0 flame retardant material



Standard spikes

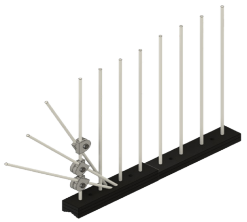


Spikes with extra coverage

videos + more

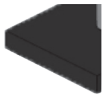


Raptor Guard™ standard spikes RGSP-24



Raptor Guard™ spikes with extra coverage RGSP-24-EC

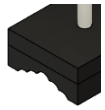
Base options



Flat



Angle iron



Davit arm

SKU	Coverage	Mount type	Min qty
RGSP-12-EC *	12"/30.48 cm	Cross arm	10
RGSP-24	24"/60.96 cm	Cross arm	20
RGSP-24-AN	24"/60.96 cm	Angle iron	20
RGSP-24-EC *	24"/60.96 cm	Cross arm	10
RGSP-24A	24"/60.96 cm	Davit arm	20
RGSP-24A-EC *	24"/60.96 cm	Davit arm	10
RGSP-36	36"/91.44 cm	Cross arm	10
RGSP-36-AN	36"/91.44 cm	Angle iron	10
RGSP-36-EC *	36"/91.44 cm	Cross arm	10
RGSP-36A	36"/91.44 cm	Davit arm	10
RGSP-36A-EC *	36"/91.44 cm	Davit arm	10
RGSP-48	48"/121.92 cm	Cross arm	10
RGSP-48-AN	48"/121.92 cm	Angle iron	10
RGSP-48-EC *	48"/121.92 cm	Cross arm	10
RGSP-48A	48"/121.92 cm	Davit arm	10
RGSP-48A-EC *	48"/121.92 cm	Davit arm	10

* Spikes with EC feature additional side spike extension to cover vertical insulators or ends of arm.

Tests	Results
UL 746C Outdoor weatherability	F1
UL-94 Flammability	V-0 // 5VA @ .118" thickness
ASTM D-256 Impact strength	23.0 FT-LB/IN
ASTM D695 Flexural stress	3,810 PSI

04 | Raptor Guard™ perching prevention

Raptor Guard™ pole top caps

Perching excluders





Pole top caps isolate dangerous energized areas and deter birds of prey from using structures as hunting perches.

V-O flame retardant

Rated for all voltages

- Blunt-tipped spike deters perching, as proven by live flight cage raptor tests conducted in collaboration with the Rocky Mountain Raptor Program
- Flush mounting protects the pole top from weathering deterioration, perching and nesting activity
- Engineered to maintain structural integrity under extreme environmental conditions for decades
- Durability and effectiveness have been highlighted in pilot programs by the Washington State Fish and Wildlife and the bureau of land management
- Can be installed on wood, steel or composite



Distribution Pole top caps

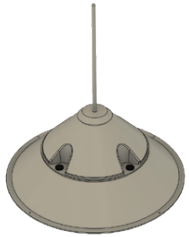


Transmission Structure pole top cap

videos + more



Raptor Guard™ pole top cap kit for banding to poles RGPT-K



Raptor Guard™ pole top cap RGPT-26

SKU	Diameter	Recommended pole top diameter	Min qty
RGPT-8	8”/20.32 cm	7”-9”/17.78 cm-22.86 cm	5
RGPT-10	10”/25.4 cm	9”-11”/22.86 cm-27.94 cm	5
RGPT-12	12”/30.48 cm	11”-13”/27.94 cm-33.02 cm	5
RGPT-14 *	14”/35.56 cm	13”-15”/33.02 cm-38.1 cm	5
RGPT-16 *	16”/40.64 cm	15”-17”/38.1 cm-43.18 cm	5
RGPT-18 *	18”/45.72 cm	17”-19”/43.18 cm-48.26 cm	5
RGPT-20 *	20”/50.8 cm	19”-21”/48.26 cm-53.34 cm	5
RGPT-22 *	22”/55.88 cm	21”-23”/53.34 cm-58.42 cm	5
RGPT-24 *	24”/60.96 cm	23”-25”/58.42 cm-63.5 cm	5
RGPT-26 *	26”/66.04 cm	25”-27” / 63.5 cm-68.58 cm	5
RGPT-28 *	28”/71.12 cm	27”-29”/68.58 cm-78.66 cm	5
RGPT-30 *	30”/76.2 cm	29”-31”/78.66 cm-78.74 cm	5
RGPT-32 *	32”/81.28 cm	31”-33”/78.74 cm-83.82 cm	5
RGPT-34 *	34”/86.36 cm	33”-35”/83.82 cm-88.9 cm	5
RGPT-36 *	36”/91.44 cm	35”-37”/88.9 cm-93.98 cm	5
RGPT-38 *	38”/96.52 cm	37”-39”/93.98 cm-99.06 cm	5
RGPT-40 *	40”/101.6 cm	39”-41”/99.06 cm-104.14 cm	5
RGPT-42 *	42”/106.68 cm	41”-43”/104.14 cm-109.22 cm	5
RGPT-K	Adapter kit for banding to non-wood pole		5

* Includes adapter kit for banding to non-wood poles.

Tests	Results
ASTM D-638 Tensile strength	70,000 PSI
ASTM D-695 Compressive strength	20,000 PSI
ASTM D-149 Dielectric strength	50 kV/in

04 | Raptor Guard™ perching prevention

Raptor Guard™ universal nest diverters



Bird nests on electrical structures can cause power outages, fires, and avian electrocutions, it is optimal to prevent nesting activity before it begins.

V-O flame retardant

Rated for all voltages

Adjusts to fit

- Inverted “V” shape deflects sticks and prevents nesting ability - even by osprey and eagles
- Extendable design provides the perfect fit on all cross arm designs
- Independent research study has demonstrated a 100% efficacy rate
- Options for distribution structures, transmission structures, switches and intellirupters
- Magnetic hotstick install option available



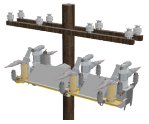
H frame transmission structure nest diverter



Adjustable nest diverter



Switch nest diverter



Intellirupter nest diverter kit

videos + more

SKU	Coverage	Description/structure type	Min qty
RGNS-24	24”/60.96 cm	H frame transmission center	10
RGNS-24-43	24”-43”/60.96 cm-109.22 cm	Universal fit/double cross arm	6
RGNS-24-48S	24”-48”/60.96 cm-121.92 cm	Universal fit/single cross arm	6
RGNS-24-43-V	24”-43”/60.96 cm-109.22 cm	Universal fit/double cross arm/V-0 material	6
RGNS-24-48S-V	24”-48”/60.96 cm-121.92 cm	Universal fit/single cross arm/V-0 material	6
RGNS-12	12”/30.48 cm	Double cross arm	10
RGNS-36	36”/91.44 cm	Double cross arm	10
RGNS-36-1 *	36”/91.44 cm	Double cross arm	10
RGNS-36-K	36”/91.44 cm	Double cross arm	5
RGNS-36-K-SS **	36”/91.44 cm	Double cross arm/includes straps	5
RGNS-36S	36”/91.44 cm	Single cross arm	10
RGNS-36S-1 *	36”/91.44 cm	Single cross arm	10
RGNS-40	40”/101.6 cm	H frame transmission midsection	10
RGNS-40-EC	40”/101.6 cm	H frame transmission end junction	10
RGNS-48	48”/121.92 cm	Double cross arm	10
RGNS-48-1 *	48”/121.92 cm	Double cross arm	10
RGNS-48-K	48”/121.92 cm	Double cross arm	5
RGNS-48-K-SS **	48”/121.92 cm	Double cross arm/includes straps	5
RGNS-SCIR-01-K ***	37.5”+20”/95.25 cm+50.8 cm	S&C intellirupter cat. # 248122, 248123, 248124	N/A
RGNS-36C-V	31”/78.7 cm	Switch equipment	20
RGNS-8S-B-V	4”-7”/101 cm-17.8 cm	Switch equipment	20

* Nest diverters without pole cut outs are designed for double cross arm structures with arms mounted 6”+ below the pole top.
** Includes super strap banding for easy installation.
*** Additional models available to fit non disconnect styles with or without secondary transformer.

Tests	Results
ASTM G-154/4329 Accelerated weather testing	Report coming soon-in house
ASTM D-149 Dielectric strength	>30 kV @ .040
Properties	**Results**
ASTM D1822 Tensile impact	>200 FT-LB/In
ASTM D746 Low temperature brittleness	<-76°C
ASTM D1693 Environmental stress crack resistance	>1,000 hrs
Tests // V-0 nest diverters	**Results**
ASTM D-149 Dielectric strength	>50 kV
ASTM D-638 Comparative tracking	>500 V
ASTM G-26 Accelerated weather testing	>1000 hrs
UL 746C Outdoor weather ability	F1
Properties	**Results**
UL-94 Flammability	V-0/5 VA

05 | Nesting prevention

Nest platforms

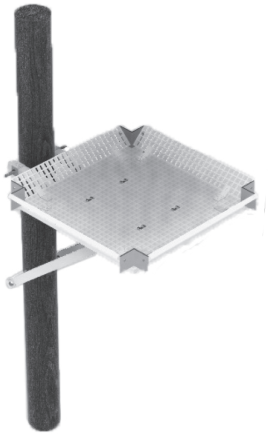


Ideal for eagle and osprey nests, large and strong nesting platforms provide a safe zone for multiple generations.

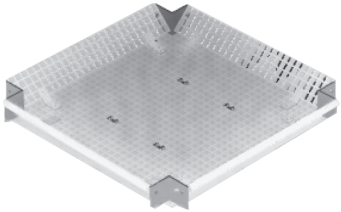
V-O flame retardant

Rated for all voltages

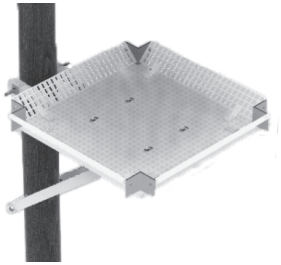
- 750+ lbs (34+ kg) capacity for nesting materials
- Ideal for eagles and osprey nesting activity for multiple generations - built for longevity
- Grates allow water to drain
- Mounting options for poles and cross arms
- Glass fiber reinforced polyester for:
  - UV Resistance
  - Corrosion resistance
  - Fire resistance
  - High dielectric strength
- For best results use in combination with nest diverters



videos + more



Nest platform RGNP-42



Nest platform with attachment kit RGNP-42-A

SKU	Dimensions	Structure type
RGNP-42	42" x 42" x 6"/ 106 cm x 106 cm x 15 cm	Nest platform only for double cross arm installation
RGNP- 42-A	42" x 42" x 6"/ 106 cm x 106 cm x 15 cm	Nest platform with attachment kit for 6"-12"/15 cm-30 cm diameter poles

For larger diameter poles, please contact us.
No minimum order quantity.

Tests	Results
ASTM E84-19B // Standard test method for surface burning characteristics of building materials	Class A
ASTM D-149 Dielectric breakdown voltage and strength	Passed/24 kV
Physical load testing (RGNP-42-A)	Passed/750 lbs
ASTM G-154-12A cycle 1/ASTM D26-16-12 // UV aging	>1000 hrs

Super Strap™
Polymer banding



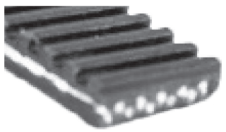
Non conductive banding is designed to be lineman safe and integrated nylon filaments provide enhanced durability and strength.

V-O flame retardant

Rated for all voltages

- 100% polymer non-conductive banding
- Integrated nylon filaments enhance strength
- 3/4” (1.9 cm) strap holds >1,180 lbs per band
- UV-resistant polymer is lightweight and durable
- Polymer eliminates risk of dissimilar metal-caused corrosion failures
- Quick-attach, tamper-proof buckles





Nylon filament integration

videos + more



Super strap banding assembled



Super strap banding roll
SSB-BA-3/4-98



Super strap buckle
SSB-BU-3/4



Super strap tool
SSB-AT-3/4

SKU	Dimensions	Min qty
SSB-BA-3/4-98	98’ x 3/4”/29.87 m x 1.91 cm	-
SSB-BA-3/4-196	98L x 3/4”/59.74 m x 1.91 cm	-
SSB-BU-3/4	Buckle for SSB-BA-3/4-98 and SSB-BA-3/4-196	20
SSB-AT-3/4	Tightening tool for SSB-BA-3/4-98 and SSB-BA-3/4-196	-

Tests	Results
UL-94 Flammability	HB
IEEE 1656/5.6 Ultraviolet aging/ASTM G-155	Passed
ISO 4892-2/Weathered tensile strength	Passed

Custom wildlife mitigation

Solutions for every structure

Define **Design** **Done**

At Power Line Sentry, we take pride in our custom job shop-style approach to wildlife mitigation. From concept to completion, our process is agile, fast, and thorough—delivering high-quality, application-specific solutions with industry-leading turnaround times.

Our in-house capabilities are backed by a cross-functional network of:

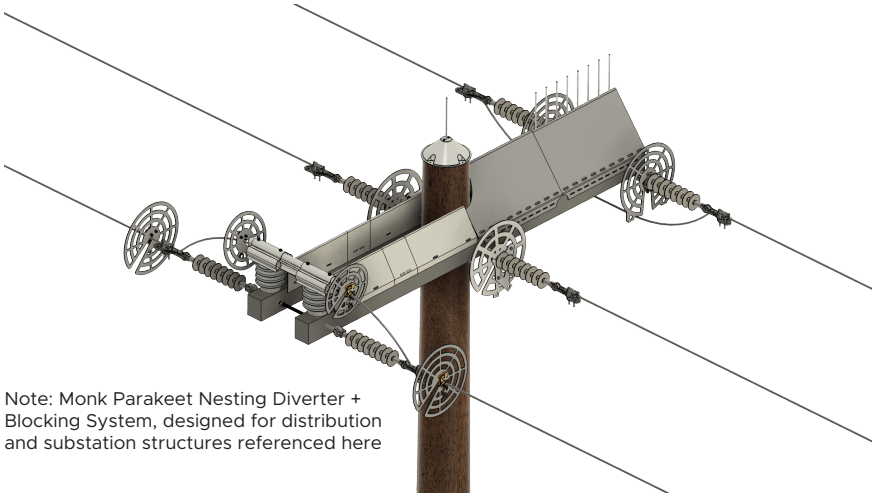
- Electrical engineers who design to the unique needs of power transmission and distribution systems
- Wildlife biologists and environmentalists who ensure ecological compatibility
- Field-experienced linemen who understand practical deployment
- Innovative developers working with robotics and drones for cutting-edge remote deployment options

Every custom solution begins with a free consultation to assess your structure, local wildlife activity, and environmental factors like vegetation, climate, and terrain. From there, our team crafts a tailored plan—designed, tested, and delivered with precision.

Whether you need a single custom-fit barrier or a full mitigation kit, we're built to deliver.

- **Fast and flexible:**
  Rapid prototyping, short lead times, and quick conceptual designs mean your unique challenges get resolved quickly
- **Collaborative and expert-driven:**
  Our solutions are developed by a cross-disciplinary team that blends engineering precision with environmental expertise
- **Custom kits for any scenario:**
  Whether for substations, transmission lines, or hard-to-access areas, we design and deliver exactly what your site requires

Tailored protection for every network



Note: Monk Parakeet Nesting Diverter + Blocking System, designed for distribution and substation structures referenced here

Power Line Sentry specializes in developing custom wildlife mitigation products and kits for electrical structures of all types.

Low voltage to high voltage

Solutions designed for any specifications

Distribution **Substation** **Transmission**

Your wildlife challenge, solved

Contact us at Sales@PowerLineSentry.com or reach out directly through our website to begin your free consultation.

sicame
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