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Avian Protection Products, Assorted



1. Scope

This standard covers the requirements for an assortment of avian protection products.

This standard applies to the following Seattle City Light (SCL) Stock Numbers:

Stock No.	Description
013038	Raptor protection cover, single arm/pin construction
013039	Raptor protection cover, double arm/pin construction
014426	Raptor protection cover, deadend suspension construction
014427	Raptor protection cover extension
013042	Cutout cover with fastener pin
013043	Wildlife connector cap
580776	Transformer Bushing Cover, Arrestor Cover, Termination Cover
013360	Conductor marker/diverter, round
013582	Bushing cover, 15 – 35 kV

2. Application

The products specified in this standard are intended to cover a variety of exposed high-voltage parts commonly found on the 26.4 kV, overhead distribution system to protect birds, such as crows, pigeons, and eagles, from electrical shock.

Stock No. 013360 may also be effective in diverting large birds such as swans, eagles, ducks, and geese.

Products are suitable for indoor or outdoor applications and are non-tracking.

Operations personnel shall determine if products may be installed on energized systems or if equipment must be de-energized and grounded first. It should not be necessary to disassemble system components to install protection products.

Standards Coordinator Curtis Lu Standards Supervisor John Shipek Unit Director Andrew Strong

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Protective products may be cut to improve fit.

Operations personnel are encouraged to try different products and report their experiences and findings to Standards.

For additional information, refer to Construction Standard 0072.01 - Avian Protection.

3. Product Requirements

3.1	Stock Number	013038	
	Description	Raptor protection cover, single arm/pin construction	
	Manufacturer	TE Connectivity	
	Catalog Number	BCIC-G-PIN-795-01	
	Color	Gray	
	Material	Fire retardant, flame resistant ABS/PVC blend with UV inhibitors	
	Overall length	32 inches	
	Specific application	vertical, clamp top, Class 57-12 porcelain in typically used with 397.5 kcmil (Chickadee)	neck, Class 57-2 porcelain insulators or over sulators. Tie-top, "F" neck insulators are or smaller conductor. Clamp top insulators are r. Flexible cover allows conductors to exit up
3.2	Stock Number	013039	
	Description	Raptor protection cover, double arm/pin construction	
	Manufacturer	TE Connectivity	
	Catalog Number	BCIC-G-DPIN-795-01	9
	Color	Gray	- III
	Material	Fire retardant, flame resistant ABS/PVC blend with UV inhibitors	
	Overall length	42 inches	
	Specific application	Product is installed over vertical, tie-top, "F" vertical, clamp top, Class 57-12 porcelain in typically used with 397.5 kcmil (Chickadee) are typically used with 954 kcmil (Rail) concexit up to 30 degree angles from any axis.	or smaller conductor. Clamp top insulators
3.3	Stock Number	014426	
	Description	Raptor protection cover, deadend suspension construction	
	Manufacturer	TE Connectivity	
	Catalog Number	BCIC-G-DE/CL-01	
	Color	Gray	
	Material	Fire retardant, flame resistant ABS/PVC blend with UV inhibitors	
	Overall length	27 inches	
	Specific application	Product is installed over deadend shoe con	nected to a suspension insulator in primary

deadends.

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Product Requirements, continued

Stock Number	014427	
Description	Raptor protection cover extension	
Manufacturer	TE Connectivity	0
Catalog Number	BCAC-G-ARM-01	N. N.
Color	Gray	
Material	Fire retardant, flame resistant ABS/PVC blend with UV inhibitors	
Overall length	31 inches	
Specific application	Product is installed over primary conductor and	is connected to the Raptor Cover.

Stock Number	013042	
Description	Cutout cover with fastener pin	
Manufacturer	Kaddas Enterprises, Inc.	
Catalog Number	KE1183-GR	
Color	Gray	
Material	Fire retardant, flame resistant base material with UV inhibitors	
Specific application	Product is installed over 100 ampere, open typ	

3.6	Stock Number	013043
	Description	Wildlife connector cap
	Manufacturer	Central Moloney
	Catalog Number	70380436
	Color	Gray
	Material	Molded glass-filled polyester
	Specific application	Product is used to add wildlife protection to overhead dist bushings. Unscrew the original connector and install new



Product is used to add wildlife protection to overhead distribution transformer primary bushings. Unscrew the original connector and install new connector in its place. Connector will accept copper or aluminum conductor up to 2/0 AWG. Note: All new overhead transformers are already provided with this type of protective connector.

3.7	Stock Number	580776	
	Description	Transformer bushing cover, arrester cover, termination cover	War Stall
	Manufacturer	TE Connectivity	
	Catalog Number	BCAC-G-IC-5D/6	
	Color	Gray	
	Material	Polyolefin	3.1
	Specific application	Hinged cover snaps and locks around overhead dibushings. This cover is approximately 5 inches in and terminations.	

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Product Requirements, continued

3.8	Stock Number	013360	**
	Description	Conductor marker/diverter, round	
	Manufacturer	Preformed Line Products	7
	Catalog Number	RAPTOR-Y	
	Color	See Application Section below.	ABO.
	Material	UV stabilized plastic and stainless steel spring	
	Specific application	Product is attached along a span of primary conductor. against background features, letting birds see where the in the wind, the device also makes a noise that birds catter is the second of the seco	e power lines are. When swaying n hear. Highly reflective yellow
		tape is positioned in the center of each device to further conductor 0.1" – 1.5" in diameter. Device can be installestick. Recommended spacing is every 15 feet.	
3.9	Stock Number	conductor 0.1" - 1.5" in diameter. Device can be installed	
3.9	Stock Number Description	conductor 0.1" – 1.5" in diameter. Device can be installestick. Recommended spacing is every 15 feet.	
3.9		conductor 0.1" – 1.5" in diameter. Device can be installed stick. Recommended spacing is every 15 feet. 013582	
3.9	Description	conductor 0.1" – 1.5" in diameter. Device can be installed stick. Recommended spacing is every 15 feet. 013582 Animal Protection Bushing Cover	
3.9	Description Manufacturer	conductor 0.1" – 1.5" in diameter. Device can be installed stick. Recommended spacing is every 15 feet. 013582 Animal Protection Bushing Cover TE Connectivity	
3.9	Description Manufacturer Catalog Number	conductor 0.1" – 1.5" in diameter. Device can be installed stick. Recommended spacing is every 15 feet. 013582 Animal Protection Bushing Cover TE Connectivity BCAC-G-5D/8	

4. Packaging

Products shall be packaged to prevent damage during shipping, handling, and storage.

5. Issuance

Stock Unit: EA (for all products)

6. Approved Manufacturers

Approved manufacturers and catalog numbers are cited in Section 3 of this standard.

7. References

SCL Construction Standard 0072.01; "Avian Protection"

8. Sources

4-1773455-0 E361; "Energy Ready Reference Guide, Generation, Distribution, Transmission," Tyco Electronics; 12/09

KE1039; Revision C; "Line Protector," Drawing; Kaddas Enterprises; Released 05-11-08

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TE Connectivity; www.te.com