

CABLE CLEAT AND LINER



1. Scope

This standard covers the requirements for cable cleats and liners.

This standard applies to the following Seattle City Light stock numbers:

Stock Number	Description
013428	Cleat
013429	Cleat liner for 15 kV, 1000 kcmil, 3-1/C cable

2. Application

Cable cleats (with liners) are used to cushion electric power cables from magnetic forces arising during fault currents. Cable cleats are also used to protect cables from chafing in areas subject to recurring vibration.

Cleat liner, stock number 013429, is designed to fit Seattle City Light's 15 kV, 1000 kcmil, 3-1/C primary cable, stock number 623670.

A complete assembly requires one cleat and one cleat liner. A particular assembly is not range taking.

Cable cleats should not be solely relied upon to provide vertical support of cable. For vertical support of heavy cable, use weave-style grips.

Refer to manufacturer's website (www.kvastrategies.com) for recommended cleat spacing and ratings for withstanding short-circuits.

3. Requirements

3.1 General




Operating temperature range, degrees F -40 to 140

3.2 Cleat

Figure 3.2, Cleat



Frame material	Marine grade, non-magnetic 316L stainless steel
Frame material dimensions, mm	50 x 2
Closure hardware	Captive 316 stainless steel M12 bolt and Nyloc nut
Mounting bolts	One or two 3/8-inch diameter bolts (not included)

standards coordinator	standards supervisor	unit director
 John Shipek	 John Shipek	 Darnell Cola

3.3 Cleat Liner

Figure 3.3, Cleat Liner



Liner material low smoke and fume, zero-halogen polymer

4. Packaging

Cable cleats and liners shall be packaged to prevent damage during shipping, handling, and inside storage.

Individual packages shall be legibly marked with:

- Manufacturer's name
- Manufacturer's catalog number
- Product description
- Quantity contained
- Seattle City Light's stock number

5. Approved Manufacturer

Stock Number	Description	Ellis Patents, Ltd / kVA Strategies, LLC Catalog Number
013428	Cleat	ES94-118
013429	Cleat liner for 15 kV, 1000 kcmil, 3-1/C cable	SFT51

6. References

Shipek, John; Standards engineer and originator of 7206.06

European Specification EN-50368:2003; Cable Cleats for Electric Installations