

## Connectors, Lug, Set Screw, Aluminum



### 1. Scope

This standard covers the requirements of aluminum, set screw lug connectors.

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

Stock No.	Conductor Range (AWG/kcmil)	Number of Conductors
012564	#14 to #6	1
651310	#6 to 250	1
651314	#14 to 1/0	2

### 2. Application

Lug connectors are for terminating aluminum or copper cables to a flat aluminum or copper surface.

Stock No. 012564 is for grounding aluminum streetlight mast arms.

### 3. Industry Standards

Lug connectors shall meet the applicable requirements of the latest revision of the following industry standards:

**ANSI C119.4**, American National Standard for Electric Connectors— Connectors for Use between Aluminum-to-Aluminum and Aluminum-to-Copper Conductors Designed for Normal Operation at or Below 93°C and Copper-to-Copper Conductors Designed for Normal Operation at or Below 100°C

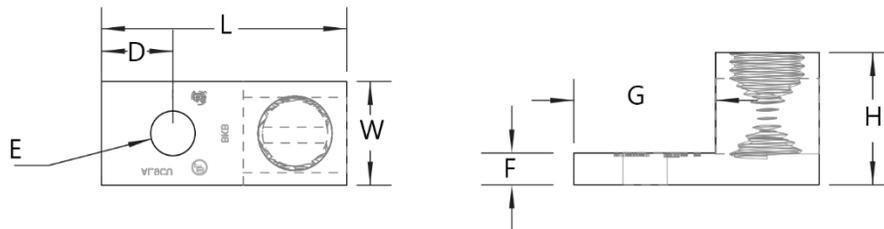
**UL 486A-486B**, Standard Name: Wire Connectors

#### 4. Requirements

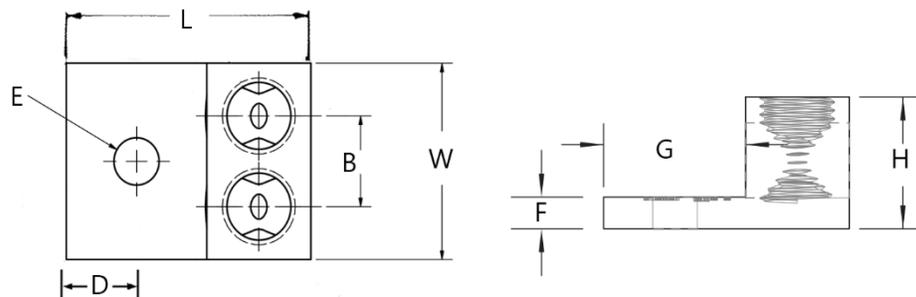
Lug connectors shall have the following attributes:

- Made of high strength aluminum alloy
- Tin-plated
- Suitable for either copper or aluminum conductors
- Slotted or socket screw design
- Physical design and dimensions as shown in Table 4 and figures 4a and 4b.
- Include set screws

**Figure 4a. One-Conductor Lug Dimensions**



**Figure 4b. Two-Conductor Lug Dimensions**



**Table 4. Lug Connector Dimensions**

Stock No.	Conductor Range (AWG/kcmil)	Connector Dimensions (in)				Pad Dimensions (in)			
		Length (L)	Width (W)	Height (H)	Set Screw Spacing (B)	Thickness (F)	Depth (G)	Bolt Hole (D)	Stud Size (E)
012564	#14 to #6	1-3/64	1/2	1/2	-	5/64	5/8	15/64	1/4
651310	#6 to 250	2	1	1-1/8	-	1/4	1	15/32	5/16
651314	#14 to 1/0	1-15/32	1-7/32	25/32	35/64	3/16	27/32	7/16	1/4

#### 5. Markings

Lug connectors shall be legibly marked with the following:

- Manufacturer name or trademark
- Catalog number
- Conductor size

## 6. Packaging

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

Standard packages shall be legibly marked with the following information:

- Manufacturer identification
- Product catalog part number
- Product description
- SCL stock number

Each shipping container shall be legibly marked with the following information:

- Seattle City Light purchase order number
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## 7. Issuance

EA

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## 8. Approved Manufacturers

Stock No.	Conductor Range (AWG/kcmil)	IlSCO	Hubbell Power Systems -- Burndy	ABB/ Thomas & Betts/ Blackburn
012564	#14 to #6	TA-6-S	KA6U	ADR6
651310	6 to 250	TA 250	KA29U	ADR25
651314	#14 to 1/0	AU-0	K2A25U	ADR11-21

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## 9. Sources

**Stock Catalog Page 65-10** (February 5, 2004)

**Stock Catalog Page 65-23** (April 29, 2013)

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**www.abb.com**

**www.ilSCO.com**

**www.hubbell.com**