

## Locknuts, Standard and Bonding



### 1. Scope

This standard covers the requirements for standard and bonding locknuts.  
This standard applies to the Seattle City Light (SCL) stock numbers listed in Section 7.

### 2. Application

Locknuts are used to fasten threaded conduit to opening in an electrical box or panel.  
See Section 4 for detailed application notes.

### 3. Industry Standards

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

**NEMA FB 1** - Fittings, Cast Metal Boxes, and Conduit Bodies for Conduit, Electrical Metallic Tubing, and Cable

**UL 514B** - Conduit, Tubing, and Cable Fittings

### 4. Requirements

#### 4.1 Standard Locknuts

Standard locknuts, when tightened, bite into the paint on the box, providing a positive ground.

Standard locknuts shall have the following attributes:

- Threaded
- Malleable iron or steel, hot-dip galvanized or zinc electroplate construction

**Figure 4.1. Standard Locknut**



## 4.2 Bonding Locknuts

Bonding locknuts are used in harsh vibration environments to fasten threaded conduit to unthreaded opening in a box or enclosure. It has a hardened cone point screw that prevents loosening under vibration.

Bonding locknuts shall have the following attributes:

- Threaded
- Malleable iron or steel, hot-dip galvanized or zinc electroplate construction
- Hardened steel cone point screw

**Figure 4.2. Bonding Locknut**



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## 5. Packaging

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

Each standard package shall be legibly marked with the following information:

- Manufacturer identification
- Product description
- Seattle City Light stock number
- Quantity

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

- Seattle City Light purchase order number

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## 6. Issuance

Stock Unit: EA

## 7. Approved Manufacturers

**Table 7.1. Approved Manufacturers, Standard Locknuts**

Stock No.	Trade Size (in)	Appleton	Bridgeport	Thomas & Betts	Eaton (Cooper, Crouse-Hinds)
731490	1/2	BL50	101-S	141SST	11
731491	3/4	BL75	102-S	142SST	12
731492	1	BL100	103-S	143SST	13
731493	1-1/4	BL125	104-S	144SST	14
731494	1-1/2	BL150	105-S	145SST	15
731495	2	BL200	106-S	146SST	16
731496	2-1/2	BL250	107-S	147SST	17
731497	3	BL300	108-S	148SST	18
731498	3-1/2	BL350	109-S	149SST	19
731499	4	BL400	110-S	150SST	20

**Table 7.2. Approved Manufacturers, Bonding Locknuts**

Stock No.	Trade Size (in)	Appleton	Bridgeport	Thomas & Betts	Eaton (Cooper, Crouse-Hinds)
731505	1-1/4	GL125	124-S	LG 404	GL 14
731506	1-1/2	GL150	125-S	LG 405	GL 15
731507	2	GL200	126-S	LG 406	GL 16
731508	2-1/2	GL250	127-S	LG 407	GL 17
731509	3	GL300	128-S	LG 408	GL 18

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## 8. Sources

**Shetab, Muneer**; SCL Standards Engineer, originator, and subject matter expert for 7050.41 (muneer.shetab@seattle.gov)

**Rigid Conduit and IMC Locknuts**; [www.appletonelec.com](http://www.appletonelec.com)

**Rigid and IMC Conduit Fittings**; [www.bpfittings.com](http://www.bpfittings.com)

**Rigid/Intermediate Grade Fittings**; [www.crouse-hinds.com](http://www.crouse-hinds.com)

**Rigid Metal Conduit Fittings**; [www.tnb.com](http://www.tnb.com)

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