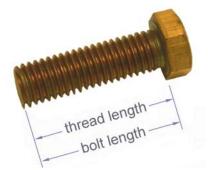
# SEATTLE CITY LIGHT

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## SILCON BRONZE HEX HEAD CAP SCREW



## 1. Foreword

### 1.1 Scope

This material standard covers the requirements for silicon bronze, hex head, cap screws.

## 1.2 Application

Silicon bronze hardware is used to make up electrical connections. Refer to Construction Guideline D14-4/NSV-20. Silicon bronze hardware is also used in situations where high-strength and corrosion-resistance is desired.

Refer to ASTM F468, Table 2 for tensile strength values.

### 1.3 Industry Standards

Cap screws shall meet the applicable requirements of the following industry standards:

ASME B18.2.1-1996 - Square and Hex Bolts and Screws (Inch Series)

**ASTM F468-03a** - Standard Specification for Nonferrous Bolts, Hex Cap Screws, and Studs for General Use

ASME B18.12-2001 - Glossary of Terms for Mechanical Fasteners

### 2. Fabrication

### 2.1 Common Requirements

	Requirements	Reference
Product Name	hex cap screw	ASME B18.12, Section 3.1.2.7
Material	silicon bronze alloy 651	ASTM F468, Tables 1 and 2
Dimensions	per reference	ASME B18.2.1, Table 4
Threads	standard series UNC Class 2A	ASME B18.2.1, Table 4, Note (12)
Minimum Thread Length	per reference	ASME B18.2.1, Table 4, Note (9)

## 2.2 Marking

Cap screw heads shall be marked according to ASME B18.2.1, Section 2.8.

STANDARDS COORDINATOR	STANDARDS SUPERVISOR	
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## **MATERIAL STANDARD**

Silcon Bronze Hex Head Cap Screw

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## 2.3 Detailed Requirements

Nominal Size, in.	Threads per in.	Length, in.	Stock Number
1/4	20	3/4	784503
		1	784505
		1-1/4	784506
		2	784509
		2-1/2	784511
5/16	18	3/4	784523
		1	784525
		2	784529
		2-1/2	784531
		3	784533
3/8	16	3/4	784543
		1	784545
		1-1/4	784546
		1-1/2	784547
		1-3/4	784548
		2	784549
		2-1/4	784550
		2-1/2	784551
1/2	13	1	784585
		1-1/4	784586
		1-1/2	784587
		1-3/4	784588
		2	784589
		2-1/4	784590
		2-1/2	784591
		3	784593
		4	784595
5/8	11	1	784605
		1-1/2	784607
		2	784609
3/4	10	1-1/2	784627
		2	784629

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## 3. Packaging

Cap screw standard packaging shall be as follows:

Nominal Size, in.	Length, in.	Quantity per Box
1/4	all	50 or 100
5/16, 3/8	all	25 or 50
1/2	all	25 or 50
5/8, 3/4	all	10, 20 or 25

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

- Manufacturer's identification
- Product description
- Seattle City Light's Stock Number
- Quantity contained

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

- Manufacturer's identification
- Country of origin
- Product description
- Seattle City Light's Purchase Order Number
- Seattle City Light's Stock Number

## 4. Shipping

Product shall be shipped to the address specified on the Purchase Order.

## 5. Issuance

Stock Unit: EA

### 6. Approved Manufacturers

Seattle City Light Material Control personnel will identify and approve distributors, and hence manufacturers, for this family of products.