

Steel Washers, Helical Spring Lock



1. Scope

This standard applies to galvanized steel helical spring (split) lock washers.

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

Stock No.	Size (in)
788141	#6
788142	#8
788143	#10
584252	1/4
584253	5/16
584250	3/8
584255	1/2
584260	5/8
584265	3/4

2. Application

Helical spring lock washers are for general purpose use, not for use with pole line hardware.

Helical spring lock washers compensate for developed looseness and loss of tension between parts of an assembly and to function as a hardened thrust bearing. For some head styles, washers also distribute the load over a larger area.

Nominal washer sizes are intended for use with comparable nominal bolt sizes.

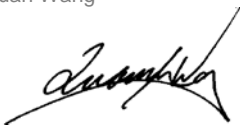
3. Industry Standards

Helical spring lock washers shall meet the applicable requirements of the following industry standards:

ANSI/ASME B18.12 (2012); Glossary of Terms for Mechanical Fasteners

ANSI/ASME B18.21.1 (2009); Lock Washers

ASTM A153/A153M (2009); Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware



ASTM B633 (2011); Standard Specification for Electrodeposited Coatings of Zinc on Iron and Steel

ASTM B695 (2009); Standard Specification for Coatings of Zinc Mechanically Deposited on Iron and Steel

4. Requirements

Helical spring lock washers shall meet the following requirements:

	Requirements	Reference
Product Name	Helical spring lock washer	ASME B18.12, Section 3.3.1.10
Material	Carbon steel	ASME B18.21.1, Section 2.3.1 (a)
Dimensions	Per reference	ASME B18.21.1, Table 1 (for Regular) or Table 2 (for Heavy)
Corrosion Protection	Nominal sizes 5/16" and smaller, per reference; zinc coating; electro-plating	ASTM B633
	Nominal sizes 3/8" and larger, per reference; zinc coating; mechanical or hot-dip galvanized	ASTM A153 or ASTM B695

5. Packaging

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

- Manufacturer identification
- Product description
- SCL stock number
- Quantity contained (see table below)

Size, Nominal (in)	Quantity per Box
3/8 and smaller	100, 500, or 1000
1/2 and larger	100 or 500

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

- Manufacturer information
- Product description
- SCL purchase order number
- SCL stock number

6. Issuance

EA

7. Approved Manufacturers

A. B. Chance (Hubbell Power Systems)
Hughes Brothers, Inc., Seward, NE
Joslyn Manufacturing (MacLean Power Systems)
Kortick, Hayward, CA
Portland Bolt, Portland, OR

Seattle City Light Material Control personnel may identify and approve distributors, and hence manufacturers, for hardware sized 5/16 inches and smaller.

8. Sources

SCL Material Standard 5842.1 (canceled); “Steel Washers, Helical Spring Lock”

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www.electricalmaterialscompany.com

www.hughesbros.com