# **MATERIAL STANDARD**

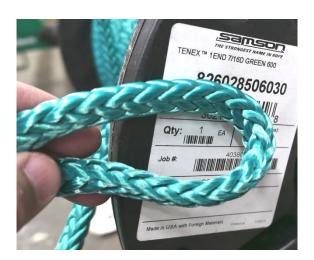
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Superseding: New

Effective Date: February 1, 2022

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# Rope, 12-Strand, Class 1, Green



# 1. Scope

This standard covers the requirements for green, Class 1, 12-strand, rope. This rope is commonly referred to as Tenex; however, other manufacturers produce similar products under different brand names.

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

Stock No.	Diameter (in)
014782	1/4
014783	3/8
014784	7/16

### 2. Application

Green, 12-strand, Class 1 rope is for hand lines and general application.

12-strand, Class 1 rope offers high strength with low stretch, outstanding abrasion resistance, and easy splicing. Product is coated to enhance wear life and snag resistance.

### 3. Industry Standards

Rope shall meet the requirements of the latest revision of either of the following industry standards:

Cordage Institute International Standard CI 1500; "Test Methods for Fiber Rope"

**ISO 2307 (en)**; "Fibre Ropes; Determination of Certain Physical and Mechanical Properties"

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gold line

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### 4. Requirements

Rope shall meet the requirements of Tables 4a-d.

### **Table 4a. General Requirements**

Fiber	Polyester	
Color	Green	
Class	1	
Construction	12-strand	
Coated	Yes	
Lay	None	

#### Table 4b. 1/4 Inch Size

Diameter (in)	1/4
Breaking strength, minimum (lb)	3100
Working load limit, minimum (lb)	620

#### Table 4c. 3/8 Inch Size

Diameter (in)	3/8
Breaking strength, minimum (lb)	5700
Working load limit, minimum (lb)	1140

### Table 4d. 7/16 Inch Size

Diameter (in)	7/16	
Breaking strength, minimum (lb)	8400	
Working load limit, minimum (lb)	1680	

Working load limit shall be based on the minimum breaking strength, employing a safety factor of 5:1.

### 5. Testing

Test data that establishes compliance with the requirements of either CI 1500 or ISO 2307, and this standard shall be provided upon request.

# 6. Packaging

Rope shall be packaged on reels to prevent damage during shipping, handling, and inside storage.

Rope shall be packaged on 600-ft reels.

Each length shall be continuous throughout, containing no splices, hockles, kinks, or loose ends.

Each reel shall be legibly marked with the following information:

- Manufacturer identification
- Product description
- Length, nominal
- Seattle City Light stock number

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

- Manufacturer identification
- Seattle City Light purchase order number

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### 7. Issuance

Stock Unit: FT

# 8. Approved Manufacturers

Manufacturer	Product Family	Product Code
Samson	Tenex, green	826 (coated)

# 9. Sources

# SamsonRope.com

Samson Utility Product Guide, 2016/2017, YGS:MSW 109598 500 8/2017

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