

## 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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#### 4. Requirements

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

**Table 4a. General Requirements**

<b>Fiber</b>	Polyester
<b>Color</b>	Green
<b>Class</b>	1
<b>Construction</b>	12-strand
<b>Coated</b>	Yes
<b>Lay</b>	None

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

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

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

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

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

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

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

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#### 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.

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#### 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

## 7. Issuance

Stock Unit: FT

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## 8. Approved Manufacturers

<b>Manufacturer</b>	<b>Product Family</b>	<b>Product Code</b>
Samson	Tenex, green	826 (coated)

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## 9. Sources

**SamsonRope.com**

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

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