

## Liquidtight Flexible Nonmetallic Conduit (LFNC)



### 1. Scope

This standard covers the requirements for liquidtight flexible nonmetallic conduit (LFNC).

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

<u>Stock No.</u>	<u>Trade Size (in)</u>
013544	1/2

For liquidtight flexible metal conduit (LFMC) see SCL 7070.05.

Fittings and connectors are outside the scope of this standard.

### 2. Application

LFNC gives protection for wiring circuits located in extremely wet or damp areas. It is suitable for above ground use indoors or outdoors in exposed or concealed locations. It is also approved for direct burial and concrete encasement.

The physical appearance of LFNC resembles its close relative, Liquidtight Flexible Metallic Conduit (LFMC). Both have smooth gray liquidtight outer jackets. However, LFNC is more flexible and is used in locations where flexibility is required for installation, operation, or maintenance.

### 3. Industry Standards

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

**UL 1660**; "Liquid-Tight Flexible Nonmetallic Conduit"

Standard Coordinator  
Muneer Shetab

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Standards Engineering Supervisor  
Brett Hanson

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Division Director  
Bob Risch

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**4. Requirements**

LFNC shall have the following attributes:

- Nonmetallic PVC, integral Type B construction
- Gray jacket color
- 80-degree C-rated for dry locations
- 60-degree C-rated for wet locations
- 70-degree C-rated for oily locations
- -18-degree C-rated low temperatures

**Table 4. Conduit Requirements**

<b>Trade Size (in)</b>	<b>Avg. Inside Dia. (in)</b>	<b>Avg. Outside Dia. (in)</b>	<b>Bend Radius, Min. (in)</b>
1/2	0.622-0.642	0.820-0.840	3.25

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**5. Packaging**

LFNC shall be packaged in 100-ft coils.

LFNC 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
- SCL stock number
- Quantity

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

- SCL purchase order number
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**6. Issuance**

Stock Unit: FT

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**7. Approved Manufacturers**

- ABB (Thomas & Betts, Carlon, Steel City)
  - AFC Cable Systems
  - Anaconda Sealtite
  - Calbrite Stainless Steel Conduit Systems
  - Cooper Power Systems (Eaton Crouse-Hinds Series)
  - Hubbell Wiring Devices-Kellems
  - Southwire
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**8. References**

SCL Material Standard 7070.05; "Liquidtight Flexible Metal Conduit (LFMC)"

## 9. Sources

**afcweb.com**

**SCL Stock Catalog Page 73-8**, June 30, 2017

**Shetab, Muneer**; SCL Standards Engineer, originator, and subject matter expert for 7080.05