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## Insulating Hose, Split, Silicone Rubber, and Installation Tools



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### 1. Scope

This standard covers the requirements for split, silicone rubber, insulating hose and installation tools.

This standard applies to the Seattle City Light stock numbers listed in Section 6.

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### 2. Application

Insulating hose is used to cover bare, high-voltage leads and jumpers for the purpose of protecting small birds and other wildlife from electrical shock.

Insulating hose is suitable for indoor or outdoor applications, is non-tracking, and is easy to install over existing conductor. Refer to Table 3.2 for more-specific application information.

Insulating hose may only be installed on de-energized and grounded systems.

Insulating hose is not appropriate for covering spans of bare conductor; it would be too time-consuming to install.

Insulating hose can be installed using the line hose installation tool. Refer to Table 3.2b for tool information.

For additional information, refer to SCL 0072.01, "Avian Protection."

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### 3. Requirements

#### 3.1 General

Insulating hose shall be resistant to tearing and to damage from flame, arc, and ultraviolet (UV) light.

Insulating hose shall also have the requirements cited in Table 3.1.

**Table 3.1 Insulating Hose Requirements**

Base material	silicone rubber
Color	gray
Continuous operating temperature, maximum	90 degrees C
Install temperature, minimum	0 degrees C
Withstand voltage, one minute dry, AC, minimum	20 kV

#### 3.2 Dimensions

Insulating hose shall have the nominal dimensions cited in Table 3.2. Corresponding hose installation tools are also listed in Table 3.2.

**Table 3.2. Insulating Hose Dimensions and Hose Installation Tool Sizes**

Hose Stock No.	Tool Stock No.	Conductor Diameter Use Range, in	Application	Hose Size, in
013044	014430	.10 – .42	#6 AWG – 1/0 AWG	3/8
013045	014431	.38 – 0.68	1/0 AWG – 300 kcmil	5/8
013046	014432	.76 – 1.10	397 kcmil – 715 kcmil	1
013047	014432	1.10 – 1.35	716 kcmil – 1192 kcmil	1-1/4

### 4. Packaging

Insulating hose and installation tool shall be packaged to prevent damage during shipping, handling, and storage.

Individual packages or spools shall be legibly marked with:

- Manufacturer name
- Manufacturer catalog number
- Product description
- Seattle City Light Stock Number

Shipping containers shall be legibly marked with:

- Seattle City Light Purchase Order Number
- Seattle City Light Stock Number

### 5. Issuance

Insulating Hose Stock Unit: FT

Hose Installation Tool Stock Unit: EA

## 6. Approved Manufacturer

<b>Stock No.</b>	<b>Description</b>	<b>Power Line Sentry</b>
013044	3/8" hose	LH-038-25
013045	5/8" hose	LH-063-25
013046	1" hose	LH-100-25
013047	1-1/4" hose	LH-125-25
014430	3/8" tool	LHT-038
014431	5/8" tool	LHT-063-075
014432	1"-1-1/4" tool	LHT-100-125

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## 7. References

**SCL Construction Standard 0072.01**; "Avian Protection"

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## 8. Sources

**Shipek, John**; SCL Standards Supervisor, subject matter expert and originator of 6910.30 (john.shipek@seattle.gov)

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