

## Fuse, Fast-Acting, Current-Limiting, 600 V, 40 A



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### 1. Scope

This material standard covers the requirements for 600 V, 40 A rated, fast-acting, current-limiting, cartridge type fuses.

This standard applies to Seattle City Light (SCL) Stock No. 683162.

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### 2. Application

Fast-acting fuses may be used only where proper protection is already being provided by a branch circuit device.

Fast-acting fuses provide supplementary protection on branch circuits so that the branch circuit fuse is not disturbed in downstream, overcurrent situations.

Fast-acting fuses may be used only where the available ac short-circuit current does not exceed 10,000 A. This value is significantly less for dc circuits.

Fast-acting fuses are appropriate for lighting, control, and meter circuits. Fast-acting fuses are not appropriate for protecting motors or motor circuits

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### 3. Industry Standards

Fast-acting fuses shall meet the applicable requirements of the following industry standard and its amendment:

**UL Standard 248-14** - Underwriters Laboratories Inc., Low Voltage Fuses - Part 14: Supplemental Fuses, January 1, 2000

**UL Standard 248-14 (Amendment)** - Underwriters Laboratories Inc., Low Voltage Fuses - Part 14: Supplemental Fuses, April 14, 2004

#### 4. Attributes

Fast-acting fuses shall have the following attributes:

UL type:	Supplemental
Interrupting rating (IR):	
600 Vac	10,000 A
600 Vdc	30 A
Diameter:	13/32 in
Length:	1-1/2 in
Terminal style:	ferrule

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#### 5. Tests and Test Reports

Data that establishes compliance with the requirements of UL 248-14 and this material standard shall be provided upon request.

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#### 6. Marking

Fast-acting fuses shall be permanently marked with:

- Manufacturer's name or symbol
- Manufacturer's catalog number
- Voltage rating
- Ampere rating

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#### 7. Packaging

Fast-acting fuses shall be packaged to prevent damage during shipping, handling, and inside storage.

Each shipping container shall be marked with the Seattle City Light purchase order number.

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#### 8. Issuance

EA

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#### 9. Approved Manufacturers

Stock No.	Current Rating (A)	Catalog Numbers		
		Bussman	Mersen	Littelfuse
683162	40	KTK-40	ATM40	KLK-40

## 10. Sources

**Cooper Bussmann Full Line Catalog No. 1007**; 2007

**SCL Construction Guideline NCB-70**; "Traffic and Streetlight Services in Network Areas"

**SCL Construction Guideline SL-2/NSL-20** (canceled); "Fusing Schedule, Underground Streetlighting"

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