

**FUSE, GENERAL PURPOSE, NON-CURRENT LIMITING,  
 250 AND 600 VOLT**



**1. Scope**

This material standard covers the requirements for 250 and 600 Vac rated, general purpose, non-current limiting, cartridge type fuses.

This material standard applies to the following Seattle City Light Stock Numbers:

Stock Number	Voltage Rating, Vac	Current Rating, A
683020	250	1
683021	250	3
683023	250	6
683024	250	10
683025	250	15
683026	250	20
683027	250	25
683028	250	30
683029	250	35
683030	250	40
683031	250	45
683032	250	50
683033	250	60
683034	250	70
683035	250	80
682607	600	3
682609	600	10

**2. Application**

General purpose fuses are used to protect feeder and branch circuits where the available short-circuit current does not exceed 50,000 amperes for circuits rated up to 60 A (or 10,000 amperes for circuits rated 65 to 600 A).

General purpose fuses are appropriate for lighting, heating, and other non-inductive circuits.

General purpose fuses are intended for dry applications only.

Stock Numbers 682607 and 682609 are used in fire detection control cabinets. Refer to Construction Guidelines NCB-140 and NCB-141.

**3. Industry Standards**

General purpose fuses shall meet the applicable requirements of the following industry standards and their amendments:

**UL Standard 248-6;** Underwriters Laboratories Inc., Low Voltage Fuses - Part 6: Class H, Non-Renewable Fuses, January 1, 2000

**UL Standard 248-6 (Amendment);** Underwriters Laboratories Inc., Low Voltage Fuses - Part 6: Class H, Non-Renewable Fuses, April 14, 2004

**4. Attributes**

General purpose fuses shall have the following attributes:

4.1 Fuses rated 0 to 60A

UL class	K5
Interrupting rating (IR)	50,000 A RMS symmetrical
Terminal style	ferrule
Figure	4.1

standards coordinator	standards manager	unit director
 John Shipek	 John Shipek	 Pamela S. Johnson

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Figure 4.1, Ferrule, non-rejection style fuse



4.2 Fuses rated 65 to 600A

UL class	H
Interrupting rating (IR)	10,000 A RMS symmetrical
Terminal style	end blade
Figure	4.2

Figure 4.2, End blade, non-rejection style fuse



**5. Tests and Test Reports**

Data that establishes compliance with the requirements of UL 248-6 and this material standard shall be provided upon request.

**6. Marking**

Each general purpose fuse shall be permanently marked with:

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

**7. Packaging**

General purpose fuses shall be packaged to prevent damage during shipping, handling, and storage.

**8. Issuance**

EA

**9. Approved Manufacturers**

Stock Number	Voltage Rating, Vac	Current Rating, A	Diameter, in	Length, in	Catalog Numbers		
					Bussman	Ferraz Shawmut	Littelfuse
683020	250	1	9/16	2	NON-1	OT1	NLN-1
683021	250	3	9/16	2	NON-3	OT3	NLN-3
683023	250	6	9/16	2	NON-6	OT6	NLN-6
683024	250	10	9/16	2	NON-10	OT10	NLN-10
683025	250	15	9/16	2	NON-15	OT15	NLN-15
683026	250	20	9/16	2	NON-20	OT20	NLN-20
683027	250	25	9/16	2	NON-25	OT25	NLN-25
683028	250	30	9/16	2	NON-30	OT30	NLN-30
683029	250	35	13/16	3	NON-35	OT35	NLN-35
683030	250	40	13/16	3	NON-40	OT40	NLN-40
683031	250	45	13/16	3	NON-45	OT45	NLN-45
683032	250	50	13/16	3	NON-50	OT50	NLN-50
683033	250	60	13/16	3	NON-60	OT60	NLN-60
683034	250	70	1-1/16	5-5/8	NON-70	OT70	NLN-70
683035	250	80	1-1/16	5-5/8	NON-80	OT80	NLN-80
682607	600	3	13/16	5	NOS-3	OTS3	NLS-3
682609	600	10	13/16	5	NOS-10	OTS10	NLS-10

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### **10. References**

**6830.5** (canceled); "Fuse, Cartridge, One-Time, Zinc Alloy, 250-Volt;" Material Standard; SCL

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

**NCB-140**; "Fire Detection Installation Details and Wiring Diagram for Dry Vault;" Construction Guideline; SCL

**NCB-141**; "Fire Detection Installation Details and Wiring Diagram for Wet Vaults;" Construction Guideline; SCL

**Shipek, John**; SCL Standards Engineer, subject matter expert and originator of SCL Material Standard 6855.05 (john.shipek@seattle.gov)