

**FUSE, DUAL-ELEMENT, TIME-DELAY, 250 VOLT**



**1. Scope**

This material standard covers the requirements for 250 Vac rated, dual-element, time-delay, cartridge type fuses with rejection feature terminals.

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

Stock Number	Current Rating, A
683037	100
683039	125
683040	150
683042	200
683043	225
683045	300
683047	400
683049	500
683050	600

**2. Application**

Unlike single-element, general purpose fuses (Material Standard 6855.05), dual-element, time-delay fuses can be sized closer to provide both high performance short-circuit protection and reliable overload protection in circuits subject to temporary overloads and surge currents.

Dual-element fuses are appropriate for motor, transformer, and other inductive circuits.

Dual-element fuses are intended for dry applications only.

**3. Industry Standards**

Dual-element fuses shall meet the applicable requirements of the following industry standard and its amendments:

**UL Standard 248-12;** Underwriters Laboratories Inc., Low Voltage Fuses - Part 12: Class R Fuses, January 1, 2000

**UL Standard 248-12 (Amendment);** Underwriters Laboratories Inc., Low Voltage Fuses - Part 12: Class R Fuses, April 14, 2004

**4. Attributes**

Dual element fuses shall have the following attributes:

UL class	RK5
Voltage Rating	250 Vac
Interrupting rating (IR)	200,000 A RMS symmetrical
Terminal style	end blade, with rejection feature

**5. Tests and Test Reports**

Data that establishes compliance with the requirements of UL 248-12 and this material standard shall be provided upon request.

**6. Marking**

Each dual-element fuse shall be permanently marked with:

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

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**MATERIAL STANDARD**

Fuse, Dual-Element, Time-Delay, 250 Volt

standard number: **6855.10**superseding: January 8, 2010  
effective date: December 14, 2010  
page: 2 of 2**7. Packaging**

Dual-element fuses shall be packaged to prevent damage during shipping, handling, and storage.

**8. Issuance**

EA

**9. Approved Manufacturers**

Stock Number	Current Rating, A	Diameter, in	Length, in	Catalog Numbers		
				Bussman	Mersen	Littelfuse
683037	100	1-1/16	5-5/8	FRN-R-100	TR-R100	FLNR-100
683039	125	1-9/16	7-1/8	FRN-R-125	TR-R125	FLNR-125
683040	150	1-9/16	7-1/8	FRN-R-150	TR-R150	FLNR-150
683042	200	1-9/16	7-1/8	FRN-R-200	TR-R200	FLNR-200
683043	225	2-1/16	8-5/8	FRN-R-225	TR-R225	FLNR-225
683045	300	2-1/16	8-5/8	FRN-R-300	TR-R300	FLNR-300
683047	400	2-1/16	8-5/8	FRN-R-400	TR-R400	FLNR-400
683049	500	2-19/32	10-3/8	FRN-R-500	TR-R500	FLNR-500
683050	600	2-19/32	10-3/8	FRN-R-600	TR-R600	FLNR-600

**10. References**

**6830.6** (canceled); "Fuse, Cartridge, One-Time, 250 Volt, 200,000 Amp Interrupting"; Material Standard; SCL

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

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