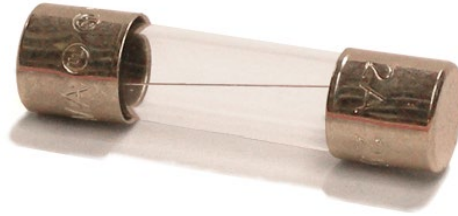


## Fuses, Electronic, Small Dimension, Glass



### 1. Scope

This material standard covers the requirements for electronic, small dimension, glass fuses.

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

Stock Number	Current Rating, A
683290	1
683360	30
012620	1
012619	2
014811	3

### 2. Application

Electronic fuses are appropriate for electronic circuits. Stock Number 683360 is a time-delay type that avoids needless blows from starting currents or surges. This fuse is used in fuse holder Stock Number 682348 to protect streetlight relays.

### 3. Industry Standards

Electronic fuses shall meet the applicable requirements of the latest revision of the following industry standard:

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

### 4. Attributes

Stock No.	683290	683360	012620	012619	014811
General type	Fast-acting	Time-delay	Fast-acting	Fast-acting	Fast-acting
Voltage Rating, Vac	250	32	250	250	250
Current Rating, A	1	30	1	2	3
Interrupting rating (IR)	35 at 250 Vac	n/a	35 A at 250 Vac 10 kA at 125 Vac	10 kA at 125 Vac 100 A at 250 Vac	10 kA at 125 Vac 100 A at 250 Vac
Diameter	1/4 inch	9/32 inch	5 mm	5 mm	5 mm
Length	1-1/4 inch	1-1/4 inch	20 mm	20 mm	20 mm

UL type	supplemental
Terminal style	nickel plated brass ferrules

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**MATERIAL STANDARD**

Fuses, Electronic, Small Dimension, Glass

standard number: **6855.65**

superseding: December 14, 2010

effective date: March 10, 2022

page: 2 of 2

**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.

**6. Marking**

Each electronic fuse shall be permanently marked with:

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

**7. Packaging**

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

**8. Issuance**

EA

**9. Approved Manufacturers**

Stock Number	Current Rating, A	Catalog Numbers		
		Bussman	Mersen	Littelfuse
683290	1	AGC-1	GGC1	312.1
683360	30	MDM-30	–	–
012620	1	GMA-1-R	GGM1	–
012619	2	GMA-2-R	GGM2	–
014811	3	GMA-3-R	GGM3	235003P

**10. References**

**SCL Material Standard 6857.10**; "Fuse Holders, Panel-Mount, 250 V"

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

**Shetab, Muneer**; SCL Standards Engineer and subject matter expert for 6855.65

**Shipek, John**; SCL Standards Supervisor, subject matter expert and originator of 6855.65

**11. Sources**

**Axial Lead and Cartridge Fuses**; 5x 20 mm Fast-Acting Fuse 235P Series, [www.littelfuse.com](http://www.littelfuse.com)

**GMA 5 mm x 20 mm Fast-acting Glass Tube Fuses**; Bussmann Series, Technical Data 2017, May 2017

**Electronic/Glass Fuses**; Midget, PC Mount & Miniature Fuses; [ep.mersen.com](http://ep.mersen.com)