

**FUSE, DUAL-ELEMENT, TIME-DELAY, PLUG TYPE,
 125 VOLT, S- AND T-SERIES**



1. Scope

This material covers the requirements for 125 Vac rated, dual-element, time-delay, S- and T-series, plug type, fuses, and an adapter.

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

Stock Number	Series	Base Type	Current Rating, A
683003	T	Edison	6
683354	T	Edison	10
683355	T	Edison	15
683356	T	Edison	20
683357	T	Edison	25
683358	T	Edison	30
683350	S	Rejection	15
683351	S	Rejection	20
683353	S	Rejection	30

683411 Adapter, T series (Edison) to S series (Rejection)

2. Application

Plug fuses are used to protect branch circuits where the available short-circuit current does not exceed 10,000 amperes.

T-series (Edison base) plug fuses are appropriate for general purpose circuits and can provide small motor overload protection when used with box cover units.

S-series plug fuses are designed with an industry standard attribute called *rejection feature*. Fuses

with rejection feature promote safety by preventing the overfusing of branch circuits.

Plug fuses are intended for dry applications, only.

T- to S-series adapters, Stock Number 683411, screw into Edison thread fuse sockets of standard fuse boxes making it easy to retrofit existing fuse installations. Adapters only accept 15 A plug fuses, Stock Number 683350.

3. Industry Standards

Plug fuses shall meet the applicable requirements of the following industry standard and its amendment:

UL Standard 248-11 - Underwriters Laboratories Inc., Low Voltage Fuses - Part 11: Plug Fuses, January 1, 2000

UL Standard 248-11 (Amendment) - Underwriters Laboratories Inc., Low Voltage Fuses - Part 11: Plug Fuses, April 14, 2004

4. Attributes

4.1 T-series plug fuses shall have the following attributes:

UL type	T
Voltage rating	125 Vac
Interrupting rating (IR)	10,000 A RMS symmetrical
Base	Brass with Edison threads
Body	ceramic
Figure	4.1

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

MATERIAL STANDARD

Fuse, Dual-Element, Time-Delay, Plug Type, 125 Volt, S and T Series

standard number: **6855.15**

superseding: February 19, 2010
 effective date: December 14, 2010
 page: 2 of 2

Figure 4.1, T-series plug fuse



4.2 S-series plug fuses shall have the following attributes:

UL type	S
Voltage rating	125 Vac
Interrupting rating (IR)	10,000 A RMS symmetrical
Base	ceramic with rejection threads
Body	ceramic
Figure	4.2

Figure 4.2, S-series plug fuse (typical)



5. Tests and Test Reports

Data that establishes compliance with the requirements of UL 248-11 and this material standard shall be provided upon request.

6. Marking

Each plug fuse shall be permanently marked with:

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

7. Packaging

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

8. Issuance

EA

10. References

6833.5 (canceled); "Fuses – Plug, Dual Element, Time-Delay"; Material Standard; SCL

Cooper Bussmann Full Line Catalog No. 1007; 2007

Shipek, John; SCL Standards Engineer, subject matter expert and originator of 6855.15 (john.shipek@seattle.gov)

9. Approved Manufacturers

Stock Number	Series	Base Type	Current Rating, A	Catalog Numbers		
				Bussman	Mersen	Littelfuse
683003	T	Edison	6	T-6	GT6	TOO-6
683354	T	Edison	10	T-10	GT10	TOO-10
683355	T	Edison	15	T-15	GT15	TOO-15
683356	T	Edison	20	T-20	GT20	TOO-20
683357	T	Edison	25	T-25	GT25	TOO-25
683358	T	Edison	30	T-30	GT30	TOO-30
683350	S	Rejection	15	S-15	-	SOO-15
683351	S	Rejection	20	S-20	-	SOO-20
683353	S	Rejection	30	S-30	-	SOO-30
683411	Adapter, T-series(Edison) to S-series (Rejection)			SA-15	SAG15	SAO-15