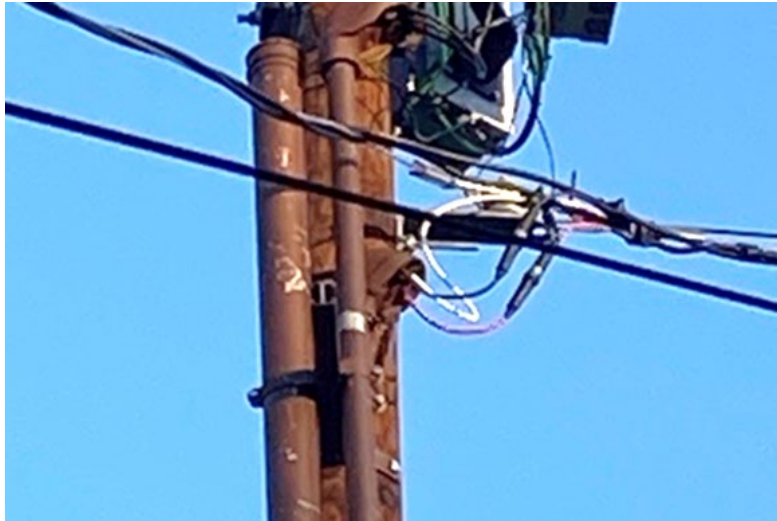

Fusing Schedule, Wireless and Wireline Communications Systems



1. Scope

This standard provides a fusing schedule for wireless and wireline pole mounted communication enclosures and small wireless facilities (SWF) served by Seattle City Light (SCL) 120 V overhead service.

2. Application:

This standard provides direction to SCL engineers and crews on correct fuse selection for wireless and wireline, pole-mounted communications enclosures and small wireless facilities (SWFs).

3. Introduction

Fusing is the primary means of providing over-current protection for pole-mounted communication enclosure and small wireless facilities. Employing correct fuse sizing ensures adequate protection of the equipment and conductors without accidental fuse trips.

Over-sizing a fuse can result in a non-trip situation during over-current surges.

Under-sizing a fuse can result in a nuisance trip during instantaneous voltage irregularities.

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4. Requirements

All energized service conductors, except the neutral, shall be fused at the drip-loop as shown in Figure 4a.

An SCL Joint Use Engineer shall specify the proper fuse to be installed for each project.

The applicable fuse sizes and compatible materials are shown in Figure 4b and Table 5. In the SCL Network system, the maximum allowed rating for a service fuse is 10 A.

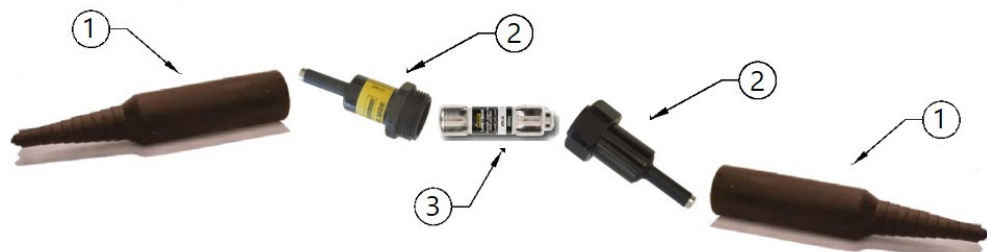
Fuses shall be:

- Rejection-type, fast-acting, current-limiting, 600 V. See SCL 6855.55.
- Installed with rejection-type, inline, non-breakaway fuse holders. See SCL 6857.07.
- Covered by a water-resistant, insulating boot. See SCL 6857.05.

Figure 4a. Fusing Location



Figure 4b. Fusing Assembly (insulating boot, fuse holder, and fuse)



5. Material List

Table 5. Wireless and Wireline Fusing Materials

Fig	Compatible Unit	ID	Quantity		
4a, 4b	30 A Fuse for Flat Rate	FUSEFLAT-30A			
4a, 4b	20 A Fuse for Flat Rate	FUSEFLAT-20A			
4a, 4b	10 A Fuse for Flat Rate	FUSEFLAT-10A			
#	Material Description	ID			
1	Fuseholder, in-line, 30 A, 600 V, rej., #6 load/ #6 line	013519	2	2	2
2	Boot, insulating, single cond., type HEB fuseholder	682360	4	4	4
3	Fuse, rejection, 10 A, 600 V, class CC	013511	2	-	-
3	Fuse, rejection, 20 A, 600 V, class CC	013513	-	2	-
3	Fuse, rejection, 30 A, 600 V, class CC	013514	-	-	2

6. References

SCL Material Standard 6855.55; “Fuse, Rejection-Type, Fast-Acting, Current-Limiting, 600 V”

SCL Material Standard 6857.05; “Fuse Holders, In-Line, Water-Resistant, and Insulating Boots”

SCL Material Standard 6857.07; “Fuse Holders, Rejection-Type, In-Line, Non-Breakaway, Waterproof, Crimp-Terminal”

7. Sources

Alexander, James; SCL Joint Use Reviewer and subject matter expert for 0094.17

Babino, Gianni; SCL Joint Use Engineer and subject matter expert for 0094.17

Neuansourinh, Ponet; SCL Standards Engineer and originator for 0094.17