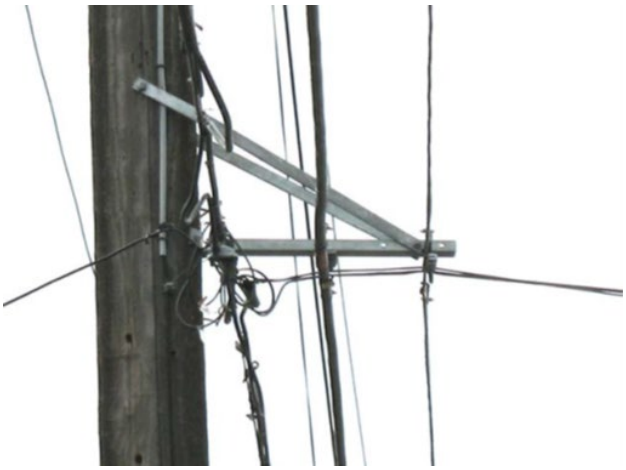
Communications Bracket Installation



1. Scope

This standard covers the information necessary to install communications brackets for additional communications cables.

Clearances and approvals are outside the scope of this standard. See SCL 0093.04.

2. Application

This standard provides direction to SCL crews and approved contractors for the installation of communications brackets.

3. Installation Requirements

3.1 General

Brackets shall be provided by SCL.

Brackets shall only be used in tangent pole installations.

Only one bracket shall be installed at each approved pole location.

All pole attachments shall be identified and labeled per SCL 0093.12.

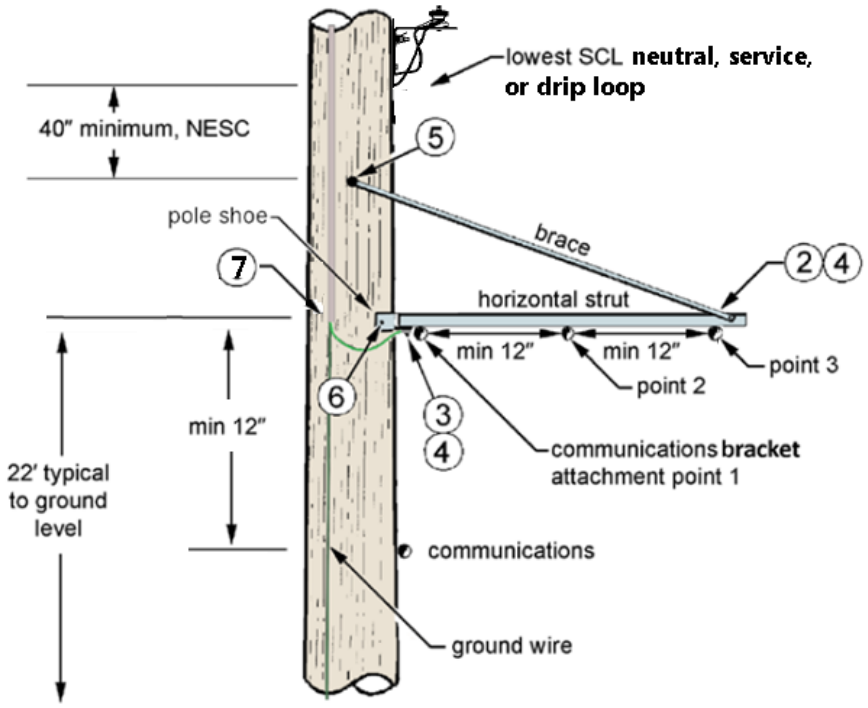
3.2 Mounting

Brackets shall meet the mounting requirements as shown in Figure 3.2.

The bottom of the brackets shall be installed 22 ft above ground level whenever possible.

Brackets shall accommodate 3 (total) communications cables with minimum horizontal separation of 12 inches, as shown in Figure 3.2.

Figure. 3.2. Installation Details



Note: For details on clearances, see SCL 0093.04.

3.3 Grounding and Bonding

The communications bracket shall be grounded. See Section 4 for grounding instructions.

Where a pole ground rod and ground wire do not exist, these shall be installed in a manner that meets or exceeds the requirements of SCL 0451.01.

4. Construction Notes

Orient the flat side of the horizontal strut down; the open side of the U-shape channel, pointing up. The pole shoe tab and terminal clamp will sit flush against the underside of the horizontal strut. See figures 3.2 and 4c.

Ground the ground wire (item 10 in the material list) and connector splice (item 8) inside the terminal lug (item 9) one inch inside the terminal lug and crimp with the Nico Press. Attach the terminal lug between the 1/2-inch bolt (item 3) and the nut.

Secure the lug to the bracket with the nut.

See Figures 4a–4c.

Figure 4a. Ground Lug

Figure 4b Nico Press

Figure 4c. Routing Ground Wire

Consult with SCL Joint Use for issues related to:

- Clearance, including railroad or highway crossing
- Crowding or congestion
- Mitigation options and request, including pole replacement

5. Material List

Table 5. Communications Bracket

Fig	Compatible Unit	ID	Qty
3.2, 4a	Communications Bracket	PLT-COMBRKT	
#	**Material Description**	**ID**	
1	Communications bracket	010408	1
2	Bolt, machine, galvanized 1/2" x 4-1/2"	780803	1
3	Bolt, machine, galvanized 1/2" x 1-1/2"	780794	1
4	Washer, lock, split, galvanized 1/2"	584255	2
5	Bolt, machine, galvanized 5/8" x 16"	780847	1
6	Bolt, lag, 1/2" x 4", Fetter Drive	785261	2
7	Tap, split bolt, parallel type	668861	1
8	Connector splice, compression, copper	677354	1
9	Terminal lug, compression	677071	1
10	Wire, THWN, 600 V copper (ft)	612277	15
11	Molding, plastic	582060	1
12	Stapes, molding	583200	10

6. References

SCL Construction Standard 0093.04; “Attachments on Wood Poles”

SCL Construction Standard 0093.12; “Pole Attachments, Identification and Tagging Requirements”

SCL Construction Standard 0451.01; “Grounding Electrodes for Distribution Poles”

7. Sources

Byrnes, Devyn; SCL Standards intern, co-originator and subject matter expert for 0093.06

Cadwallader, James; SCL Joint Use Engineer and subject matter expert for 0093.06

Lu, Curtis; SCL Standards Engineer, co-originator, and subject matter expert for 0093.06

National Electrical Safety Code (NESC), C2-2017 Edition; Institute of Electrical and Electronics Engineers, Inc. (IEEE), New York, NY, 2011

Seattle Municipal Code (SMC) 15.32.300; “Attachments to City-Owned Poles”

Revised Code of Washington (RCW) 19-29-010; “Rules for use of electrical apparatus or construction”