

CONDUIT RISERS ON POLES

1. General Requirements

All conduits on poles shall be installed in a manner meeting the following requirements:

- 1.1. Minimum interference with pole and crossarm maintenance.
- 1.2. Maximum safety for lineworkers.
- 1.3. Minimum interference with other utilities on the same pole.

2. Installation

Conduits on poles shall be installed as follows:

- 2.1. A single conduit smaller than 2" with conductors of less than 750 volts potential may be placed directly on the pole in the crotch of the crossarm (Fig. 2.1)
- 2.2. A single conduit 2" and larger, or one with conductors of 750 volts or more, shall be spaced out from the pole face 4-1/2" and offset to give 1" clear space between the conduit and the center line of the pole lead. (Fig. 2.2)
- 2.3. When two conduits are installed they shall be spaced out 4-1/2" from the face of the pole and separated 2", providing a clear space 1" on each side of the center line of the pole lead. (Fig. 2.3)

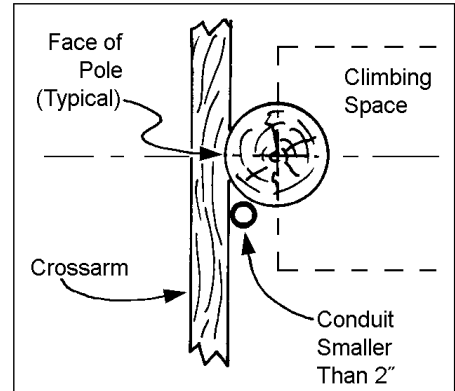


Figure 2.1

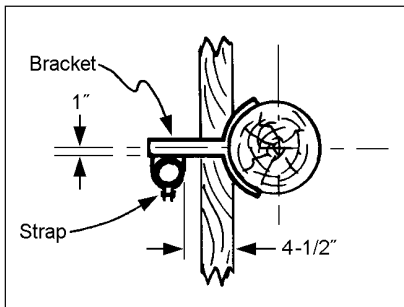


Figure 2.2

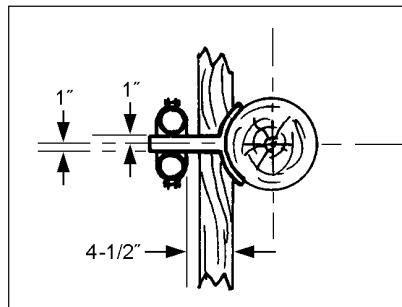


Figure 2.3

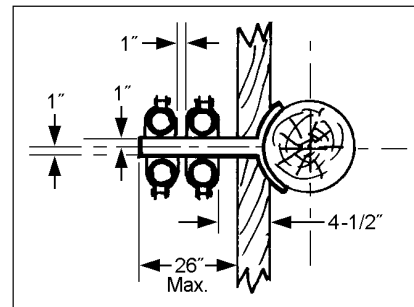


Figure 2.4

- 2.4. It is preferable to limit the number of conduits to two on a pole, but if more than two are required, they shall be installed as in Fig. 2.4. If two voltages are involved, the higher voltage shall be placed next to the pole.
- 2.5. The conduit shall have a minimum of one support in each length of conduit.
- 2.6. On poles with existing conduits, new conduits shall be installed in accordance with this specification. If it is practical, improve the existing conduit installations by moving the pole or conduits.
- 2.7. Where a telephone company terminal box interferes with conduit installation, Distribution Design will make arrangements for its relocation.
- 2.8. For grounding details, see SCL Construction Guideline U7-10.9/NDK-120.
- 2.9. Maximum bracket length shall be 26 inches. The number and size of conduits on a pole is strictly limited to that which can be properly mounted with a 26-inch bracket.

STANDARDS COORDINATOR	STANDARDS SUPERVISOR	UNIT DIRECTOR
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3. Material Requirements

The following material requirements apply to all conduit riser installations:

- 3.1. All conduit risers shall be Schedule 80 PVC or Rigid Steel conduit for the first 8-10 feet above the ground line, and shall be Schedule 40 PVC rigid plastic conduit above 8-10 feet. See Construction Guidelines U7-10.1/ NDK-80 and U7-10.2/NDK-90 for steel conduit installation.
- 3.2. Conduit spaced out from the pole shall be mounted using the following brackets and straps.

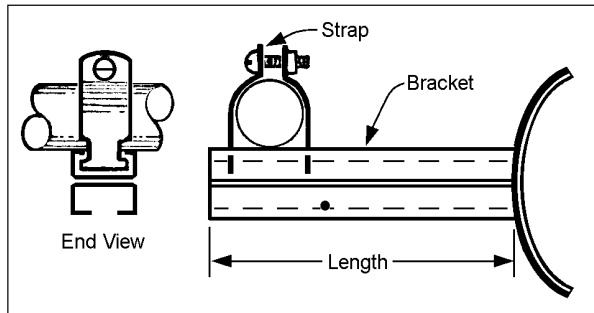


Figure 3.1

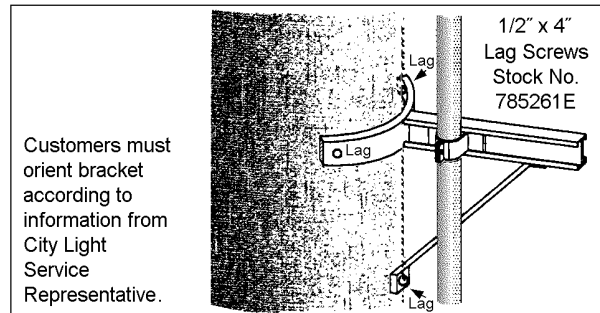


Figure 3.2

Rigid Plastic Conduit PVC

Conduit Size, Inches	Schedule 40 Stock No.	Schedule 80 Stock No.	Adapter Coupling Plastic to Metal	Strap
3/4	734526	–	734540	–
1	734527	–	734541	689760E
1-1/4	734528	–	734542	689761E
1-1/2	734529	738740	734543	689762E
2	734530	738741	734544	689764E
2-1/2	734531	738742	734545	689766E
3	734532	738743	734537	689768E
3-1/2	734533	738744	734538	689770E
4	734523	738745	734539	689772E
5	734524	DO NOT USE	734536	689774E

4. Installation of Conduit Support Bracket, with or without a Brace

Install bracket brace for use at top of first 10 ft. length of rigid steel or schedule 80 PVC conduit.

Conduit Support Bracket

Length, Inches	Stock No.	
	Pole Riser, With Brace	Pole Riser, Without Brace
10-1/2	686792E	686784E
12-1/2	686794E	686786E
18	686796E	686790E
26	012330	–

Reference: SCL Material Standard 6867.5