
Terminals, Compression, Copper, Tin-Plated



1. Scope

This standard covers the requirements for copper, tin-plated, compression terminals.

2. Application

Copper compression terminals are used to connect copper conductors rated 600 V and below to equipment terminals or bus. Compression terminals are used overhead, underground, and in the network.

Copper compression terminals are not appropriate for connecting aluminum conductor.

Stock No. 014356 is for bus gutter termination neutrals.

3. Industry Standards

Compression terminals shall meet the applicable requirements of the following industry standard:

ANSI C119.4-2016; "American National Standard for Electrical Connectors - Connectors for Use Between Aluminum-to-Aluminum or Aluminum-to-Copper Conductors"

4. Requirements

4.1 General

Compression terminals shall be all-copper and tin-plated.

Compression terminals shall be current Class A, as defined in ANSI C119.4.

Compression terminals shall be tensile strength Class 3, minimum tension (or better), as defined in ANSI C119.4.

Compression terminal width shall not exceed 1-3/4 inches to allow side-by-side installation on a NEMA-drilled equipment terminal or bus bar.

Each compression terminal shall be provided with information on tool type, die number, and number of crimps for the following tool and die manufacturers:

- Burndy
- Kearney
- Thomas & Betts (T&B)

4.2 Compression Terminals, One-Hole Type

One-hole type compression terminals shall be of the style shown in Figure 4.2.

Figure 2. Compression Terminal, One-Hole Type



One-hole type compression terminals shall meet the dimensional requirements shown in Table 4.2.

Table 4.2. Compression Terminal, One-Hole Type, Dimensions

Stock No.	Conductor Size (AWG/kcmil)	Bolt Size (in)	Tool and Die Manufacturer		
			Burndy	Kearney	Thomas & Betts
677065	6	1/4	7	-	24
677071	2	1/2	10	3/8	33
677072	2	3/8	10	3/8	33
677075	1/0	1/2	12	1/2	42
677077	2/0	1/2	13	9/16	45
677079	3/0	1/2	14	5/8	49-50

4.3 Compression Terminals, Two-Hole Type

Two-hole type compression terminals shall be of the style shown in Figure 4.3.

Figure 4.3. Compression Terminal, Two-Hole Type



Compression terminals shall meet the dimensional requirements shown in Table 4.3.

Table 4.3. Compression Terminal, Two-Hole Type, Dimensions

Stock No.	Conductor Size (AWG/kcmil)	Bolt Size (in)	Tool and Die Manufacturer		
			Burndy	Kearney	Thomas & Betts
677069	4	1/2	8	5/16	29
677081	4/0	1/2	15	5/8	54
677083	250	1/2	16	11/16	60
677085	300	1/2	17	7/8	66
677087	350	1/2	18	8/8	71
677091	500	1/2	20	1	87
677096	600	1/2	22	1-1/8	96
677100	750	1/2	24	1-5/16	106
677110	1000	1/2	27	1-1/2	125

Compression terminals shall be designed to fit underneath the corresponding same conductor size stacking terminals specified in Sections 4.4 and 8.

Spacing between holes shall be 1-3/4 inch.

4.4 Compression Terminals, Two-Hole Stacking

Two-hole stacking compression terminals shall be of the style shown in Figure 4.4.

Figure 4.4. Compression Terminal, Two-Hole Stacking



Two-hole stacking compression terminals shall meet the dimensional requirements shown in Table 4.4.

Table 4.4. Compression Terminals, Two-Hole Stacking, Dimensions

Stock No.	Conductor Size (AWG/kcmil)	Bolt Size (in)	Tool and Die Manufacturer		
			Burndy	Kearney	Thomas & Betts
677291	500	1/2	20	1	87

Stacking type compression terminals shall be designed to fit on top of the corresponding same conductor size bottom terminals specified in Sections 4.3 and 8.

Spacing between holes shall be 1-3/4 inch.

4.5 Compression Terminals, Two-Hole, 90 Degree

Two-hole, 90-degree compression terminals shall be of the style shown in Figure 4.5.

Figure 4.5. Compression Terminal, Two-Hole, 90-degree



Two-hole, 90-degree compression terminals shall meet the dimensional requirements shown in Table 4.5.

Table 4.5. Compression Terminal, Two-Hole, 90 Degree, Dimensions

Stock No.	Conductor Size (AWG/kcmil)	Bolt Size (in)	Tool and Die Manufacturer		
			Burndy	Kearney	Thomas & Betts
014356	500	1/2	20	1	87

Spacing between holes shall be 1-3/4 inch.

5. Marking

Each compression terminal shall be permanently marked with:

- Manufacturer name
- Manufacturer catalog number
- Conductor types and sizes (ranges)
- Die number

6. Packaging

Each shipping container shall be legibly marked with the following information:

- Manufacturer identification
- Product description
- Seattle City Light purchase order number
- Seattle City Light stock number

7. Issuance

Stock unit: EA

8. Approved Manufacturers

Stock No.	Conductor Size (AWG/kcmil)	No. of Holes	Bolt Size (in)	Anderson	Burndy	Homac	Richards	Panduit
677065	6	1	1/4	VHCL-6-14	YA6C	L6-14	CL3-1/4	-
677071	2	1	1/2	-	YA2CT6	L2-48	CL7	-
677072	2	1	3/8	VHCL-2-38	-	L2-38	CL7-3/8	-
677075	1/0	1	1/2	VHCL-1/0-12	YA25-N	L1/0-48	CL9	-
677077	2/0	1	1/2	VHCL-2/0-12	YA26-N	L2/0-48	CL10-1/2	-
677079	3/0	1	1/2	VHCL-3/0-12	YA27	-	CL11	-
677069	4	2	1/2	-	YA4C-2N	-	-	-
677081	4/0	2	1/2	VHCL-4/0-12BN	YA28-2N	L4/0-N	CL12-2N	-
677083	250	2	1/2	VHCL-250-12BN	YA29-2N	L250-N	CL13-2N	-
677085	300	2	1/2	VHCL-300-12BN	YA30-2N	L300-N	CL14-2N	-
677087	350	2	1/2	VHCL-350-12BN	YA31-2N	L350-N	CL15-2N	-
677091	500	2	1/2	VHCL-500-12BN	YA34-2N	L500-N	CL18-2N	-
677096	600	2	1/2	VHCL-600-12BN	YA36-2N	L600-N	CL20-2N	-
677100	750	2	1/2	CHL-750-BN-TT	-	L750-N	CL23-2N	-
677110	1000	2	1/2	CHL-1000-BN-TT	-	L1000-NT	CL28-2N	-
677291	500	2	1/2	-	-	SL500-N	CSL-18-2N	-
014356	500	2	1/2	-	YA342N90	-	CL18-2N-90	LCC500-12F-6

9. Sources

SCL Material Standard 6770.7 (canceled); "Copper Compression Terminals, Tin-Plated"