

MATERIAL STANDARD

COPPER COMPRESSION TERMINAL, TIN-PLATED



one-hole



two-hole



two-hole stacking

1. Scope

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

3. Industry Standards

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

C119.4-2004; "American National Standard for Electrical Connectors - Connectors for Use Between Aluminum-to-Aluminum or Aluminum-to-Copper Conductors"; ANSI

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.

4.1 General, continued

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 tool type, die number, and number of crimps information for:

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

4.2 Detailed Requirements, One-hole type

Compression terminals shall be of the style shown in Figure 4.2.

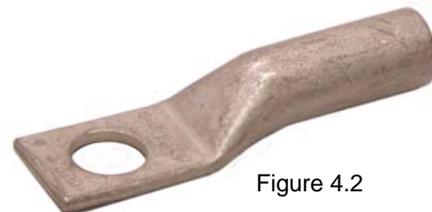


Figure 4.2

STANDARDS COORDINATOR

John Shipek
John Shipek

STANDARDS SUPERVISOR

John Barnett
John Barnett

UNIT DIRECTOR

Richard Kent
Richard Kent

4.2 Detailed Requirements, One-hole type, continued

Compression terminals shall meet the dimensional requirements of Table 4.2.

Table 4.2

Stock Number	Conductor Size, AWG/kcmil	Bolt Size, in.	Tool-Die		
			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 Detailed Requirements, Two-hole type

Compression terminals shall be of the style shown in Figure 4.3.

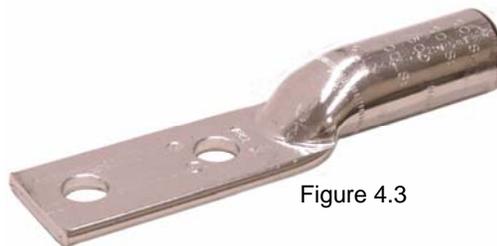


Figure 4.3

Compression terminals shall meet the dimensional requirements of Table 4.3.

Table 4.3

Stock Number	Conductor Size, AWG/kcmil	Bolt Size, in.	Tool-Die		
			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 Detailed Requirements, Two-Hole Stacking type

Compression terminals shall be of the style shown in Figure 4.3.



Figure 4.3

Compression terminals shall meet the dimensional requirements of Table 4.4.

Table 4.4

Stock Number	Conductor Size, AWG/kcmil	Bolt Size, in.	Tool-Die		
			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.

5. Marking

Each compression terminal shall be permanently marked with:

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

6. Packaging

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

- Manufacturer's identification
- Product description
- Seattle City Light's Purchase Order Number
- Seattle City Light's Stock Number

7. Issuance

EA

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STANDARD NUMBER: **6770.7**

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SUPERSEDING: December 7, 2007

EFFECTIVE DATE: January 25, 2008

8. Approved Manufacturers

Stock Number	Conductor Size, AWG/kcmil	Number of Holes	Bolt Size, in.				
				Anderson	Burndy	Homac	Richards
677065	6	1	1/4	VHCL-6-14	YA6C	L6-14	CL3-1/4
677071	2	1	1/2	na	YA2CT6	L2-48	CL7
677072	2	1	3/8	VHCL-2-38	na	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	na	CL11
677069	4	2	1/2	na	YA4C-2N	na	na
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	na	L750-N	CL23-2N
677110	1000	2	1/2	CHL-1000-BN-TT	na	L1000-NT	CL28-2N
677291	500	2	1/2	CSL-500-BN	na	SL500-N	CSL-18-2N

9. References

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