SEATTLE CITY LIGHT

MATERIAL STANDARD

STANDARD NUMBER: **6774.2**
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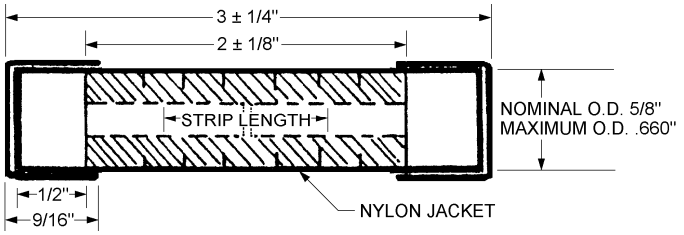
INSULATED ALUMINUM COMPRESSION CONNECTORS



1. Scope

The insulated aluminum compression connectors are intended for splicing aluminum to aluminum or aluminum to copper service entrance conductors.

2. Industry Standards

ASTM D 566, Standard Test Method for Dropping Point of Lubricating Grease

ASTM D 1248, Polyethylene Plastics Molding and Extrusion Materials

EEI-NEMA Standard TDJ-162 (ANSI C119.4), Connectors to Use Between Aluminum-to-Aluminum or Aluminum-to-Copper Bare Overhead Conductors

Military Standard Specification for Nylon, MIL-M-20693

3. Requirements

Connector Material ..... The connector shall be of 1350 grade aluminum and of the configuration and dimensions shown and shall meet all applicable requirements of EEI TDJ-162.

Jacket ..... The connector shall be covered with a nylon (polyamide plastic) insulating jacket. The nylon shall conform to the latest revision of MIL-M-20693 Type III, Grade E. The nylon jacket shall be securely anchored to the connector to prevent the jacket from slipping during compression.

End Caps ..... End caps shall be made of polyethylene conforming to ASTM D 1248, Class C. The end caps shall be of the dimensions shown and shall be secured to the nylon shell so as to act as a guide to keep the compression tool on the connector.

Inhibitor ..... The connectors shall be factory-filled with a measured amount of oxide-inhibiting compound containing metallic particles held in suspension. The dropping point of the inhibitor shall meet the requirements of ASTM D566.

Marking ..... Each connector shall have durable markings showing conductor size, die number, number of crimps, strip length and manufacturer's name or trademark and catalog number.

Installing Tool and Die ..... The connector shall be designed to be installed with *any* of the following tools and dies and the given number of crimps on each end:

Tool	EEI	Kearney	T&B	T&B	Burndy	Burndy	Burndy
Die Code	8A	5/8	TU	52	BG	W-BG	U-BG
Crimps	1/8″ apart	3	3	1	3	1	1

STANDARDS COORDINATOR	STANDARDS SUPERVISOR	UNIT DIRECTOR
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Color Coding and Conductor Size ..... The connector shall be color coded for ease of identification of wire sizes. The color code shall be as listed below.

	Conductor "A"			Conductor "B"			
	Al or Cu			Al or Cu			Approved Manufacturer
Stock No.	Solid	Stranded	Color Code	Solid	Stranded	Color Code	Homac
650554	4	5 & 6	Blue	6	8	Green	U1N68
650557	2	3 & 4	Orange	6	8	Green	U1N48
650558	2	3 & 4	Orange	4	5 & 6	Blue	U1N46
650559	2	3 & 4	Orange	2	3 & 4	Orange	U1N44
650561	1	2	Red	6	8	Green	U1N28
650562	1	2	Red	4	5 & 6	Blue	U1N26
650563	1	2	Red	2	3 & 4	Orange	U1N24
650564	1	2	Red	1	2	Red	U1N22
650565	–	1/0	Yellow	1	2	Red	U1N102
650567	–	1/0	Yellow	4	5 & 6	Blue	U1N106
650568	–	1/0	Yellow	2	3 & 4	Orange	U1N104
650569	–	1/0	Yellow	–	1/0	Yellow	U1N1010

Stock Unit: EA