

Fittings, Flexible Metal Conduit (FMC)



1. Scope

This standard covers the requirements for couplings and connectors (fittings) used with flexible metal conduit (FMC).

This standard applies to the Seattle City Light (SCL) stock numbers cited in Section 4.

2. Application

Fittings are used to connect flexible metal conduit or armored cable to an electrical box or enclosure.

Fittings are suitable for above-ground use indoors or outdoors in exposed or concealed locations. Fittings are not liquid tight.

3. Industry Standards

Fittings shall meet the applicable requirements of the latest revision of the following industry standards:

NEMA FB 1; "Fittings, Cast Metal Boxes, and Conduit Bodies for Conduit, Electrical Metallic Tubing, and Cable"

UL 514B; "Conduit, Tubing, and Cable Fittings"

4. Requirements

Fittings shall have the attributes listed in Sections 4.1 through 4.4.

4.1 Squeeze Connectors

Squeeze connectors shall have the following attributes:

- Malleable iron, zinc electroplate construction
- Male threads
- Steel locknut
- Non-insulated throat

Figure 4.1. Squeeze Connector



4.2 Angled Connectors, 45-Degree

45-degree angled connectors shall have the following attributes:

- Steel or malleable iron, zinc electroplate construction
- Steel locknut
- 2-screw clamp

Figure 4.2. Angled Connector, 45 Degree



4.3 Angled Connectors, 90-Degree

90-degree angled connectors shall have the following attributes:

- Steel or malleable iron, zinc electroplate construction
- Steel locknut
- 1-screw clamp

Figure 4.3. Angled Connector, 90-Degree



4.4 Screw-In Flex Connectors

Screw-in flex connectors shall have the following attributes:

- Die-cast zinc construction with a ball-burnished, mirror-smooth finish
- Steel locknut

Figure 4.4. Screw-In Flex Connector



5. Packaging

Fittings shall be packaged to prevent damage during shipping, handling, and storage.

Each standard package shall be legibly marked with the following information:

- Manufacturer identification
- Product description
- SCL stock number
- Quantity

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

- SCL purchase order number

6. Issuance

Stock Unit: EA

7. Approved Manufacturers

Table 7.1 Squeeze Connector

Stock No.	Trade Size (in)	Bridgeport Catalog No.	Appleton Catalog No.	Thomas & Betts Catalog No.
731027	3/8	403	7480V	253-TB1
731028	1/2	407	7481V	254-C
731029	3/4	408	7482V	255
731030	1	410	7483	266

Table 7.2 Angled Connector, 45-Degree

Stock No.	Trade Size (in)	Bridgeport Catalog No.	Appleton Catalog No.	Thomas & Betts Catalog No.
731047	1/2	803	7246V	267

Table 7.3 Angled Connector, 90-Degree

Stock No.	Trade Size (in)	Bridgeport Catalog No.	Appleton Catalog No.	Thomas & Betts Catalog No.
731050	1/2	804	7381V	268-C
731051	3/4	806	7382V	279
731052	1	807	7383	273-TB

Table 7.4 Screw-In Flex Connector

Stock No.	Trade Size (in)	Bridgeport Catalog No.	Appleton Catalog No.	Thomas & Betts Catalog No.
731038	1/2	520-DC2	SGC-50DC	XC-241
731040	3/4	521-DC2	SGC-75DC	XC-242

8. Sources

Shetab, Muneer; SCL Standards Engineer, originator, and subject matter expert for 7060.09 (muneer.shetab@seattle.gov)

SCL Stock Catalog Page 73-5, June 20, 2017

SCL Stock Catalog Page 73-8, June 30, 2017