

Clamps, Grounding, Pipe and Electrode



1. Scope

This standard covers the requirements for pipe and electrode grounding clamps.

This standard applies to the following Seattle City Light (SCL) stock numbers:

Stock No.	Electrode or Pipe Diameter (in)
733566	1/2 to 1
733567	1-1/4 - 2
733568	2-1/2 - 4

2. Application

Clamps are for connecting copper ground wire to copper water pipe, galvanized pipe, steel conduit, or grounding electrodes.

Clamps are for above-ground application only.

3. Industry Standards

Clamps 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"

UL 457; "Grounding and Bonding Equipment"

4. Requirements

Clamps shall have the following attributes:

- Brass or high-strength aluminum base material
- Plain finish for brass clamps
- Tin-planted finish for aluminum clamps
- Steel fastening screws
- For use with solid or stranded copper wire
- General design as shown in figures 4.1a or 4.1b

Figure 4.1a Brass Ground Clamp



Figure 4.1b Aluminum Ground Clamp

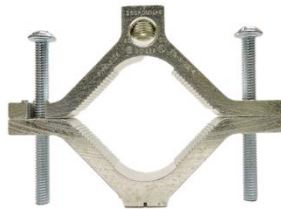


Table 4. Ground Clamp Dimensions

Stock No.	Electrode or Pipe Diameter Range (in)	Wire Range
733566	1/2 to 1	#14 AWG to 1/0
733567	1-1/4 – 2	#6 AWG to 250 kcmil
733568	2-1/2 - 4	#6 AWG to 250 kcmil

5. Packaging

Clamps 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

Stock No.	Electrode or Pipe Diameter Range (in)	Wire Range	Manufacturer Catalog No.		
			Bridgeport	Burndy	Thomas & Betts
733566	1/2 to 1	#14 AWG to 1/0	1309-B	GC15A	AJ
733567	1-1/4 – 2	#6 AWG to 250 kcmil	1313-B	GC18A	AJ-2
733568	2-1/2 - 4	#6 AWG to 250 kcmil	1315-B	GC22A	AJ-2124

8. Sources

bpfittings.com

burndy.com

Shetab, Muneer; SCL Standards Engineer, originator, and subject matter expert for 6762.75 (muneer.shetab@seattle.gov)

SCL Stock Catalog Page 73-74, February 12, 2014

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