

Wire, Copper, Bare, Medium-Hard-Drawn, 500 kcmil



1. Scope

This standard covers the requirements for bare, 500 kcmil, medium-hard drawn, concentric-lay-stranded copper wire.

This standard applies to Seattle City Light (SCL) Stock No. 610300.

2. Application

Wire is used for grounding, jumpers, and other general use.

3. Industry Standards

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

ASTM B2 – Standard Specification for Medium-Hard-Drawn Copper Wire

ASTM B8 – Standard Specification for Concentric-Lay Standard Copper Conductors, Hard, Medium-Hard, or Soft

NEMA WC 26 – Binational Wire and Cable Packaging Standard

4. Requirements

Wire shall be uncoated and meet the applicable requirements of ASTM B8 and Table 4 with the following clarification:

Copper alloy shall be medium-hard-drawn, uncoated copper, Class B.

Table 4. Requirements

Size (kcmil)	Number of Strands	Diameter, Nominal (in)	Weight (lb per 100 ft)
500	37	.813	154

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5. Packaging

Wire shall be packaged on reels according to the requirements of NEMA WC 26 and Table 5.

Table 5. Packaging

Size (kcmil)	Standard Package	Length, Nominal (ft per standard package)	Weight, Nominal (lb per standard package)
500	Reel	250	385

Actual wire length per reel may vary from the quantity stated on the Purchase Order by plus or minus 10%.

Reels shall be reusable wood type, Class 1 (Standard Duty) or Class 2 (Heavy Duty).

Reels may be new or recycled. Recycled reels (when provided) shall have the surface of both outside flanges painted over with a solid color.

Recycled reels shall be equivalent to new in quality and strength.

Reels shall be protected for shipment with coverings consistent with the recommendations of NEMA WC-26, Section 4.

Reels shall be provided with metal bushings if the gross weight exceeds 1000 pounds.

The inner end of the cable shall be brought to the outside of the reel flange and securely fastened with appropriately sized steel staples.

The inner end shall not be brought out through the reel arbor.

The outer end shall be securely fastened with appropriately sized steel staples to the inner side of flange or tied off and secured as with plastic wrap.

Each reel shall be legibly marked with:

- Wire length
- Wire size
- Wire type
- Weight of wire
- Gross weight
- Tare weight
- Product description
- Date of manufacture
- Manufacturer name and address
- Seattle City Light purchase order number
- Seattle City Light stock number

6. Shipping

Reels must be delivered in upright position suitable for side unloading by forklift, and not strapped or palletted.

7. Issuance

Stock Unit: FT

8. Approved Manufacturer

Nehring Electrical Works Company
Republic Wire, Inc.
Service Wire Company
Southwire Company

9. Sources

Shetab, Muneer; SCL Standards Engineer, subject matter expert and originator of 6103.95 (muneer.shetab@seattle.gov)
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