

Quadruplex Copper XLPE Service Drop Neutral - Messenger

Copper Conductors With Crosslinked Polyethylene Insulation.

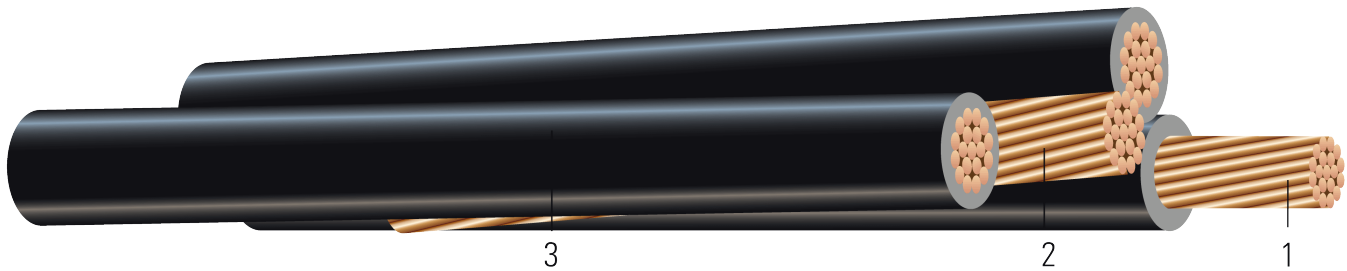


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Conductors are stranded, compressed copper
2. **Messenger:** Hard Drawn Copper
3. **Insulation:** Cross Linked Polyethylene (XLPE)

APPLICATIONS AND FEATURES:

Primarily used for 120 volt overhead service applications such as street lighting, outdoor lighting, and temporary service for construction. To be used at voltages of 600 volts phase-to-phase or less and at conductor temperatures not to exceed 90°C for crosslinked polyethylene (XLP) insulated conductors.

SPECIFICATIONS:

- ASTM B1 Hard-Drawn Copper
- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ICEA S-76-474 Standard for Neutral-Supported Power Cable Assemblies with Weather-Resistant Extruded Insulation Rated 600V



Table 1 – Weights and Measurements

| Code Word | Phase Cond. Size | Phase Strand | Dia. Over Phase Conductor | Phase Insul. Thickness | Dia. Over Phase Insulation | Neutral Cond. Size | Neutral Strand | Approx. Weight |
|-----------|------------------|--------------|---------------------------|------------------------|----------------------------|--------------------|----------------|----------------|
| | AWG/Kcmil | No. | inch | mil | inch | AWG/Kcmil | No. | lb/1000ft |
| Denver | 4/0 | 19 | 0.512 | 60 | 0.632 | 4/0 | 7 | 2781 |

All dimensions are nominal and subject to normal manufacturing tolerances

Table 2 – Electrical and Engineering Data

| Code Word | Phase Cond. Size | Neutral Rated Breaking Strength | DC Resistance @ 25°C | AC Resistance @ 75°C | Inductive Reactance @ 60Hz | GMR | Allowable Ampacity In Air 90°C |
|-----------|------------------|---------------------------------|----------------------|----------------------|----------------------------|-------|--------------------------------|
| | AWG/Kcmil | lb | Ω /1000ft | Ω /1000ft | Ω /1000ft | ft | Amp |
| Denver | 4/0 | 9154 | 0.051 | 0.0633 | 0.022 | 0.021 | 350 |

