



Duplex Copper XLPE Service Drop Neutral - Messenger

Copper Conductors With Crosslinked Polyethylene Insulation.

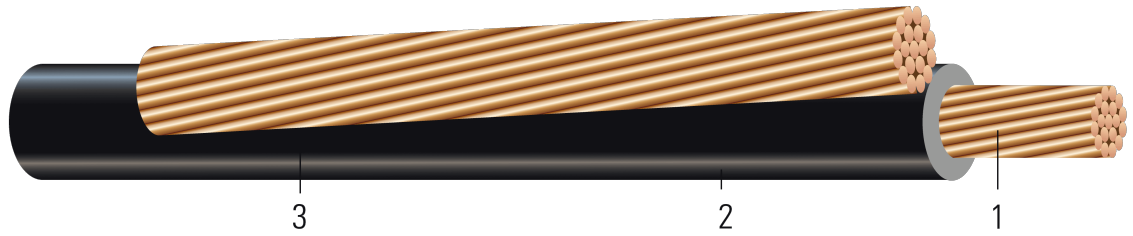


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

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

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

| Stock Number | Code Word | Phase Cond. Size | Phase Strand | Dia. Over Phase Conductor | Phase Insul. Thickness | Dia. Over Phase Insulation | Neutral Cond. Size | Neutral Strand | Approx. OD | Approx. Weight |
|--------------|-----------|------------------|--------------|---------------------------|------------------------|----------------------------|--------------------|----------------|------------|----------------|
| | | AWG/Kcmil | No. | inch | mil | inch | AWG/Kcmil | No. | inch | lb/1000ft |
| 110650 | Sigma | 6 | 7 | 0.177 | 30 | 0.237 | 6 | 7 | 0.451 | 176 |

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 |
| Sigma | 6 | 1228 | 0.411 | 0.495 | 0.051 | 0.005 | 95 / 105 |

