

# Triplex 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



Southwire Company, LLC | One Southwire Drive, Carrollton, GA 30119 | [www.southwire.com](http://www.southwire.com)

Copyright © 2024 Southwire Company, LLC. All Rights Reserved



Southwire

**CABLETECH  
SUPPORT™**

Services

UPDATED: Dec. 11, 2023, 9:29 p.m. UTC REVISION: 1.000.000

**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. Weight |
|--------------|-----------|------------------|--------------|---------------------------|------------------------|----------------------------|--------------------|----------------|----------------|
|              |           | AWG/Kcmil        | No.          | inch                      | mil                    | inch                       | AWG/Kcmil          | No.            | lb/1000ft      |
| 110809       | Doric     | 2/0              | 19           | 0.406                     | 60                     | 0.526                      | 2/0                | 7              | 1318           |

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                            |
| Doric     | 2/0              | 5926                            | 0.082                | 0.101                | 0.029                      | 0.0207 | 300                            |

