

# 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



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      |
| 110718       | Futura    | 6                | 7            | 0.178                     | 45                     | 0.268                      | 6                  | 1              | 271            |

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                            |
| Futura    | 6                | 1280                            | 0.416                | 0.512                | 0.0327                     | 0.0107 | 110                            |

