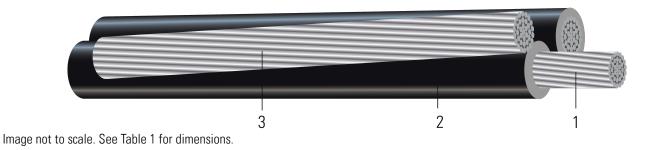


# Triplex XLPE Service Drop. AAAC 6201 Alloy Neutral - Messenger

Aluminum Conductors With Crosslinked Polyethylene Insulation.



#### **CONSTRUCTION:**

1. **Conductor:** Conductors are stranded, compressed 1350-H19 aluminum

2. **Insulation:** Cross Linked Polyethylene (XLPE)

3. Messenger: AAAC Neutral

#### **APPLICATIONS AND FEATURES:**

Used to supply power, usually from a pole-mounted transformer, to the user's service head where connection to the service entrance cable is made. To be used at voltages of 600 volts phase-to-phase or less and at conductor temperatures 90°C for crosslinked polyethylene (XLP) insulated conductors.

### SPECIFICATIONS:

- ASTM B230 Aluminum, 1350-H19 Wire for Electrical Purposes
- ASTM B231 Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors
- ASTM B400 Standard Specification for Compact Round Concentric-Lay-Stranded, Aluminum 1350 Conductors
- ASTM B901 Standard Specification for Compressed Round Stranded Aluminum Conductors Using Single Input Wire Construction. (The number of strands for both phase and neutral may differ)
- ICEA S-76-474 Standard for Neutral-Supported Power Cable Assemblies with Weather-Resistant Extruded Insulation Rated 600V



## **Table 1 – Weights and Measurements**

| Stock<br>Number | Code<br>Word | Phase<br>Cond. Size | Phase<br>Strand | Dia. Over Phase<br>Conductor | Phase Insul.<br>Thickness | Dia. Over Phase<br>Insulation | Neutral<br>Cond. Size | Neutral<br>Strand | Approx.<br>OD | Approx.<br>Weight |
|-----------------|--------------|---------------------|-----------------|------------------------------|---------------------------|-------------------------------|-----------------------|-------------------|---------------|-------------------|
|                 |              | AWG/Kcmil           | No.             | inch                         | mil                       | inch                          | AWG/Kcmil             | No.               | inch          | lb/1000ft         |
| 105098          | Shrimp       | 2                   | 7               | 0.282                        | 45                        | 0.372                         | 2                     | 7                 | 0.806         | 240               |

All dimensions are nominal and subject to normal manufacturing tolerances

# Table 2 – Electrical and Engineering Data

| Code<br>Word | Phase Cond.<br>Size | Neutral Rated Breaking<br>Strength | DC Resistance @<br>25°C | AC Resistance @<br>75°C | Inductive Reactance<br>@ 60Hz | GMR   | Allowable Ampacity In Air<br>75/90°C |
|--------------|---------------------|------------------------------------|-------------------------|-------------------------|-------------------------------|-------|--------------------------------------|
|              | AWG/Kcmil           | lb                                 | Ω/1000ft                | Ω/1000ft                | Ω/1000ft                      | ft    | Amp                                  |
| Shrimp       | 2                   | 2800                               | 0.266                   | 0.320                   | 0.045                         | 0.008 | 135 / 150                            |

#### Notes:

- 1. DC resistances include a 1% length factor for plexing.
- 2. Inductive reactance assumes the neutral is carrying current.
- 3. Phase conductors assumed to be reverse lay stranded, compressed construction.
- 4. Phase spacing assumes cables are touching.
- 5. Resistances shown are for the phase conductor only.
- 6. Sizes of AAAC neutrals are not the AAAC size, but are the size of an ACSR of equal diameter.
- 7. Ampacity based on conductor temperature of 90°; ambient temperature of 40°C; emissivity 0.9; 2 ft./sec. wind in sun.

#### **Neutral Code Word**

| Size-Strands | Code Word | OD (inches) |
|--------------|-----------|-------------|
| #6-7         | Akron     | 0.198       |
| #4-7         | Alton     | 0.250       |
| #2-7         | Ames      | 0.316       |
| 1/0-7        | Azusa     | 0.398       |
| 2/0-7        | Anaheim   | 0.447       |
| 3/0-7        | Amherst   | 0.502       |
| 4/0-7        | Alliance  | 0.563       |

<sup>1.</sup> The actual number of strands may differ for single input wire per ASTM B901

TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.