# **Covered Line Wire With Crosslinked Polyethylene (XLPE)**

Aluminum Conductor Covered with Black Crosslinked Polyethylene

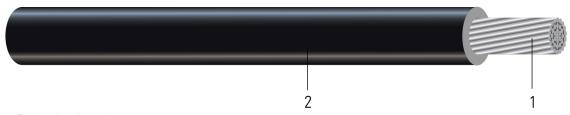


Image not to scale. See Table 1 for dimensions.

#### **CONSTRUCTION:**

- 1. Conductor: Conductors are solid or stranded compressed aluminum
- 2. **Insulation:** Black Crosslinked Polyethylene (XLPE)

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

Aluminum alloy 1350-H19 or 6201 concentrically stranded. Covered with crosslinked polyethylene (XLP). Used primarily for, but not limited to, overhead secondary distribution lines. Installed on insulators, otherwise treated as a bare conductor. Crosslinked covered line wires have the below temperature ratings:

- Normal Service temperature of 90°C
- Emergency Overload of 130°C
- Short Circuit temperature of 250°C

#### 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
- ICEA S-70-547 Weather Resistant Polyethylene Covers Conductors



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

| Stock Number | Code Word | Phase Cond. Size | Phase Strand | Phase Insul. Thickness | Approx. OD | Approx. Weight |
|--------------|-----------|------------------|--------------|------------------------|------------|----------------|
|              |           | AWG/Kcmil        | No.          | mil                    | inch       | lb/1000ft      |
| 104281       | Olive     | 4/0              | 7            | 60                     | 0.626      | 253            |

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 | Allowable Ampacity In Air 75/90°C |  |
|-----------|------------------|---------------------------------|-----------------------------------|--|
|           | AWG/Kcmil        | lb                              | Amp                               |  |
| Olive     | 4/0              | 3450                            | 370                               |  |

<sup>\*</sup> Inductive impedance is based on non-ferrous conduit with one diameter spacing center-to-center.

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.