



## Covered Line Wire With Thermoplastic Polyethylene (PE)

Aluminum Conductor Covered with Black Polyethylene (PE)

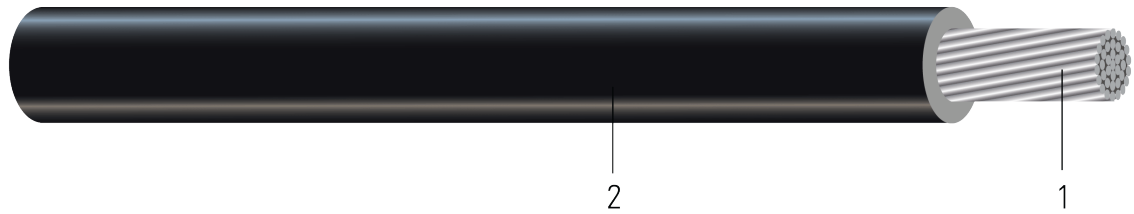


Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

1. **Conductor:** Conductors are solid or stranded compressed aluminum
2. **Covering:** Black Polyethylene (PE)

### APPLICATIONS AND FEATURES:

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

- Normal Service temperature of 75°C
- Emergency Overload of 95°C
- Short Circuit temperature of 150°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<br>AWG/Kcmil | Phase Strand<br>No. | Phase Insul. Thickness<br>mil | Approx. OD<br>inch | Approx. Weight<br>lb/1000ft |
|--------------|-----------|-------------------------------|---------------------|-------------------------------|--------------------|-----------------------------|
| 102145       | Apricot   | 4                             | 7                   | 30                            | 0.285              | 51                          |

All dimensions are nominal and subject to normal manufacturing tolerances

**Table 2 – Electrical and Engineering Data**

| Code Word | Phase Cond. Size<br>AWG/Kcmil | Neutral Rated Breaking Strength<br>lb | Allowable Ampacity In Air 90°C<br>Amp |
|-----------|-------------------------------|---------------------------------------|---------------------------------------|
| Apricot   | 4                             | 790                                   | 140                                   |

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

