



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 AWG/Kcmil | Phase Strand No. | Phase Insul. Thickness mil | Approx. OD inch | Approx. Weight lb/1000ft |
|--------------|-----------|-------------------------------|---------------------|-------------------------------|--------------------|-----------------------------|
| 102160 | Quince | 1/0 | 7 | 60 | 0.477 | 136 |

All dimensions are nominal and subject to normal manufacturing tolerances

Table 2 – Electrical and Engineering Data

| Code Word | Phase Cond. Size AWG/Kcmil | Neutral Rated Breaking Strength lb | Allowable Ampacity In Air 90°C Amp |
|-----------|-------------------------------|---------------------------------------|---------------------------------------|
| Quince | 1/0 | 1790 | 240 |

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

