



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

| Code Word | Phase Cond. Size AWG/Kcmil | Phase Strand No. | Phase Insul. Thickness mil | Approx. OD inch | Approx. Weight lb/1000ft |
|-----------|-------------------------------|---------------------|-------------------------------|--------------------|-----------------------------|
| Hornbeam | 4 | 7 | 30 | 310 | 60 |

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 |
|-----------|-------------------------------|---------------------------------------|---------------------------------------|
| Hornbeam | 4 | 1360 | 145 |

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

