# **Covered Line Wire With Thermoplastic Polyethylene (PE)**

Aluminum Conductor Covered with Black Polyethylene (PE)

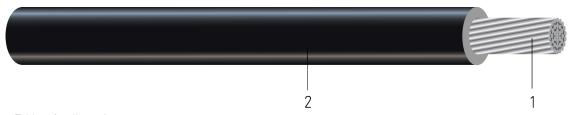


Image not to scale. See Table 1 for dimensions.

### **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**

Code Word	Phase Cond. Size	Phase Strand	Phase Insul. Thickness	Approx. OD	Approx. Weight
	AWG/Kcmil	No.	mil	inch	lb/1000ft
Apple	6	Solid	30	0.222	31

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 90°C	
	AWG/Kcmil	lb	Amp	
Apple	6	445	105	

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