

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

Aluminum Conductor Covered with Black Polyethylene (PE)

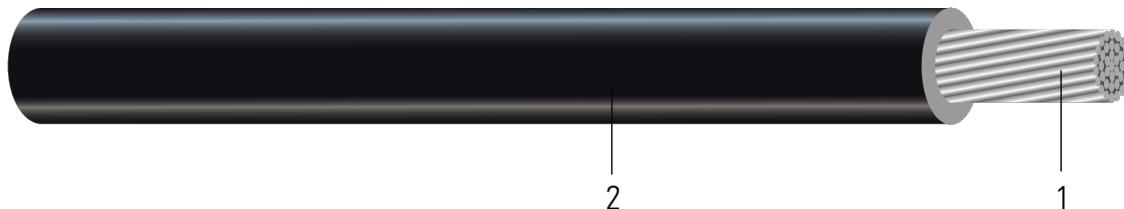


Image not to scale. See Table 1 for dimensions.

## **CONSTRUCTION:**

- Conductor:** Conductors are solid or stranded compressed aluminum
- 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
Plum	6	7	30	0.238	56

All dimensions are nominal and subject to normal manufacturing tolerances

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.

**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
Plum	6	510	84

\* Ampacity ratings based on 75°C conductor temperature 40°C ambient temperature. Wind speed 2 ft./sec. in sun.

\* Diameter equivalent to ACSR construction or 1350 aluminum equivalent.