# Covered Line Wire With Thermoplastic Polyethylene (PE)

Aluminum Conductor Covered with Black Polyethylene (PE)

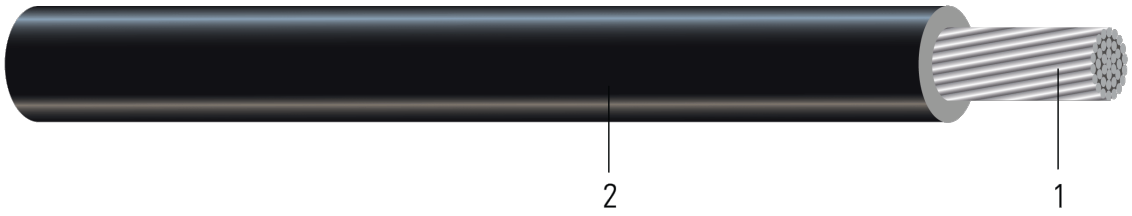



Image not to scale. See Table 1 for dimensions.

## 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 75ºC
- Emergency Overload of 95ºC
- Short Circuit temperature of 150ºC

## 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


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## Table 1 – Weights and Measurements

| Code Word | Phase Cond. Size | Phase Strand | Dia. Over Phase Conductor | Phase Insul. Thickness | Approx. OD | Approx. Weight |
|---|---|---|---|---|---|---|
| | AWG/Kcmil | No. | inch | mil | inch | lb/1000ft |
| PLUM | 6 | 7 | 0.178 | 45 | 0.268 | 42 |

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 | DC Resistance @ 25°C | AC Resistance @ 75°C | Inductive Reactance @ 60Hz | GMR | Allowable Ampacity In Air 75/90°C |
|---|---|---|---|---|---|---|
| | AWG/Kcmil | Ω/1000ft | Ω/1000ft | Ω/1000ft | ft | Amp |
| PLUM | 6 | 0.674 | 0.84 | 0.051 | 0.067 | 75/85 |

* Ampacity ratings based on 75ºC conductor temperature 40ºC ambient temperature. Wind speed 2 ft./sec. in sun.
* Diameter equivalent to ACSR construction or 1350 aluminum equivalent.


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