



## 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      |
| Grapefruit | 1033.5           | 61           | 95                     | 1.326      | --             |

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                               |
| Grapefruit | 1033.5           | 16500                           | 755                               |

\* 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.