

# Covered Line Wire With Thermoplastic Polyethylene (PE)

Aluminum Conductor Covered with Black Polyethylene (PE)

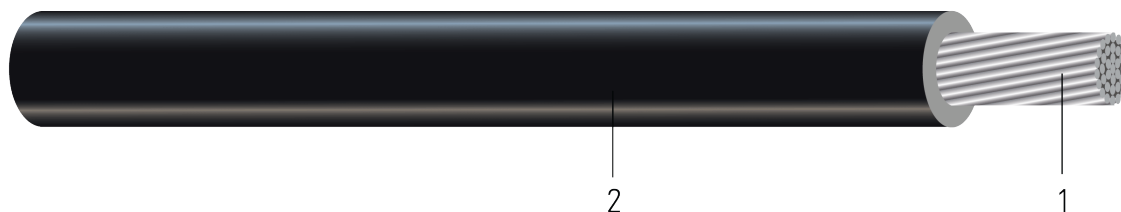


Image not to scale. See Table 1 for dimensions.

## 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



Southwire Company, LLC | One Southwire Drive, Carrollton, GA 30119 | [www.southwire.com](http://www.southwire.com)

Copyright © 2024 Southwire Company, LLC. All Rights Reserved



Southwire

**CABLETECH  
SUPPORT™**

Services

UPDATED: Dec. 11, 2023, 9:29 p.m. UTC REVISION: 1.000.000

Table 1 Weights and Measurements H19

| Stock Code | Code Word   | Size      | Stranding | Cover Thickness | Total Diameter | Rated Strength | Weight    | Allowable Ampacity+ |
|------------|-------------|-----------|-----------|-----------------|----------------|----------------|-----------|---------------------|
|            |             | AWG/Kcmil | No.       | mils            | mils           | lbs            | lb/1000ft | amps                |
|            | Apple       | 6         | 1         | 30              | 222            | 445            | 31        | 105                 |
|            | Plum        | 6         | 7         | 30              | 238            | 510            | 56        | 105                 |
|            | Pear        | 4         | 1         | 30              | 264            | 710            | 47        | 135                 |
| 102145     | Apricot     | 4         | 7         | 30              | 285            | 790            | 51        | 140                 |
|            | Cherry      | 2         | 1         | 45              | 348            | 1100           | 78        | 180                 |
| 102152     | Peach       | 2         | 7         | 45              | 373            | 1220           | 84        | 180                 |
|            | Nectarine   | 1         | 7         | 45              | 408            | 1470           | 104       | 210                 |
| 102160     | Quince      | 1/0       | 7         | 60              | 477            | 1790           | 136       | 240                 |
|            | Orange      | 2/0       | 7         | 60              | 522            | 2260           | 167       | 280                 |
| 102186     | Fig         | 3/0       | 7         | 60              | 570            | 2740           | 205       | 320                 |
| 102194     | Olive       | 4/0       | 7         | 60              | 626            | 3450           | 253       | 370                 |
|            | Pomegranate | 4/0       | 19        | 60              | 632            | 3620           | 247       | 370                 |
|            | Mulberry    | 266.8     | 19        | 60              | 694            | 4470           | 305       | 430                 |
| 102228     | Annona      | 336.4     | 19        | 60              | 765            | 5540           | 377       | 495                 |
| 621974§    | Annona      | 336.4     | 19        | 60              | 0.765          | 5540           | 377       | 495                 |
| 102236     | Molles      | 397.5     | 19        | 80              | 861            | 6400           | 462       | 545                 |
| 102244     | Huckleberry | 477       | 37        | 80              | 931            | 7820           | 538       | 610                 |
|            | Paw Paw     | 556.5     | 37        | 80              | 992            | 8950           | 619       | 670                 |
|            | Breadfruit  | 636       | 61        | 95              | 1081           | 10500          | 715       | 720                 |
| 102269     | Persimmon   | 795       | 61        | 95              | 1186           | 12900          | 877       | 825                 |
|            | Grapefruit  | 1033.5    | 61        | 95              | 1326           | 16500          | --        | 970                 |

Table 2 Weights and Measurements 6201

| Stock Code | Code Word | Equiv Dia (AWG)* | Size  | Stranding | Cover Thickness | Total Diameter | Rated Strength | Weight       | Allowable Ampacity+ |
|------------|-----------|------------------|-------|-----------|-----------------|----------------|----------------|--------------|---------------------|
|            |           | AWG              | Kcmil |           | mils            | mils           | Lbs            | Lbs/1000 ft. | amps                |
| 102442     | Hornbeam  | 4                | 48.69 | 7         | 30              | 310            | 1360           | 60           | 145                 |
|            | Linden    | 2                | 77.47 | 7         | 45              | 406            | 2160           | 99           | 190                 |
| 102467     | Oilnut    | 1/0              | 123.3 | 7         | 60              | 518            | 3440           | 159          | 250                 |
|            | Waterash  | 2/0              | 155.4 | 7         | 60              | 567            | 4160           | 195          | 290                 |
|            | Shellbark | 3/0              | 195.7 | 7         | 60              | 622            | 5240           | 240          | 335                 |
| 102491     | Planetree | 4/0              | 246.9 | 7         | 60              | 683            | 6610           | 297          | 385                 |

+Ampacity ratings based on 75°C conductor temperature 25°C ambient temperature elevation - sea level. Emissivity 0.91 coefficient of absorption 0.95. Thermal resistivity of covering - 375 C M /Watt-CM. Wind speed 2 ft./sec. in sun.

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

§ CSA Listed

