

## Covered Line Wire With Crosslinked Polyethylene (XLPE)

Aluminum Conductor Covered with Black Crosslinked Polyethylene

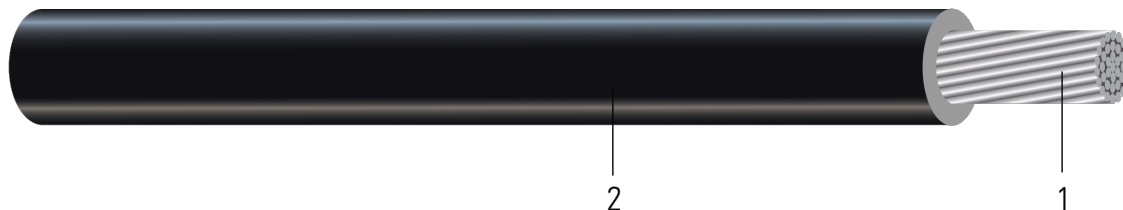


Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

1. **Conductor:** Conductors are solid or stranded compressed aluminum
2. **Insulation:** Black Crosslinked Polyethylene (XLPE)

### APPLICATIONS AND FEATURES:

Aluminum alloy 1350-H19 or 6201 concentrically stranded. Covered with crosslinked polyethylene (XLP). Used primarily for, but not limited to, overhead secondary distribution lines. Installed on insulators, otherwise treated as a bare conductor. Crosslinked covered line wires have the below temperature ratings:

- Normal Service temperature of 90°C
- Emergency Overload of 130°C
- Short Circuit temperature of 250°C

### SPECIFICATIONS:

- ASTM B230 Aluminum, 1350-H19 Wire for Electrical Purposes
- ASTM B231 Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors
- ASTM B399 Standard Specification for Concentric-Lay-Stranded, Aluminum Alloy 6201-T81 Conductors
- ICEA S-70-547 Weather Resistant Polyethylene Covers Conductors



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**Table 1 Weights and Measurements H19**

| Stock Code | Code Word   | Size      | Stranding | Cover Thickness | Total Diameter | Rated Strength | Weight Per 1000 ft. (lbs.) | Allowable Ampacity+ |
|------------|-------------|-----------|-----------|-----------------|----------------|----------------|----------------------------|---------------------|
|            |             | AWG/Kcmil | No.       | mils            | inch           | lbs            | lb/1000ft                  | amps                |
|            | Apple       | 6         | 1         | 30              | 0.222          | 445            | 31                         | 105                 |
|            | Plum        | 6         | 7         | 30              | 0.238          | 510            | 56                         | 105                 |
|            | Pear        | 4         | 1         | 30              | 0.264          | 710            | 47                         | 135                 |
| 663570     | Apricot     | 4         | 7         | 30              | 0.285          | 790            | 51                         | 140                 |
|            | Cherry      | 2         | 1         | 45              | 0.348          | 1100           | 78                         | 180                 |
| 104240     | Peach       | 2         | 7         | 45              | 0.373          | 1220           | 84                         | 180                 |
|            | Nectarine   | 1         | 7         | 45              | 0.408          | 1470           | 104                        | 210                 |
| 104257     | Quince      | 1/0       | 7         | 60              | 0.477          | 1790           | 136                        | 240                 |
|            | Orange      | 2/0       | 7         | 60              | 0.522          | 2260           | 167                        | 280                 |
| 104273     | Fig         | 3/0       | 7         | 60              | 0.57           | 2740           | 205                        | 320                 |
| 104281     | Olive       | 4/0       | 7         | 60              | 0.626          | 3450           | 253                        | 370                 |
| 104299     | Pomegranate | 4/0       | 19        | 60              | 0.632          | 3620           | 247                        | 370                 |
|            | Mulberry    | 266.8     | 19        | 60              | 0.694          | 4470           | 305                        | 430                 |
| 104315     | Annona      | 336.4     | 19        | 60              | 0.765          | 5540           | 377                        | 495                 |
| 148130     | Chinquapin  | 350       | 19        | 60              | 0.778          | 5751           | 390                        | 506                 |
|            | Molles      | 397.5     | 19        | 80              | 0.861          | 6400           | 462                        | 545                 |
| 104331     | Huckleberry | 477       | 37        | 80              | 0.931          | 7820           | 538                        | 610                 |
| 104349     | Paw Paw     | 556.5     | 37        | 80              | 0.992          | 8950           | 619                        | 670                 |
| 202127     | Breadfruit  | 636       | 61        | 95              | 1.081          | 10500          | 715                        | 720                 |
| 148460     | Persimmon   | 795       | 61        | 95              | 1.186          | 12900          | 877                        | 825                 |
| 202135     | Grapefruit  | 1033.5    | 61        | 95              | 1.326          | 16500          | 1128                       | 970                 |

+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.

**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                |
|            | Hornbeam  | 4                | 48.69 | 7         | 30              | 310            | 1360           | 60           | 145                 |
| 104547     | Linden    | 2                | 77.47 | 7         | 45              | 406            | 2160           | 99           | 190                 |
| 104554     | Oilnut    | 1/0              | 123.3 | 7         | 60              | 518            | 3440           | 159          | 250                 |
|            | Waterash  | 2/0              | 155.4 | 7         | 60              | 567            | 4160           | 195          | 290                 |
| 104570     | Shellbark | 3/0              | 195.7 | 7         | 60              | 622            | 5240           | 240          | 335                 |
|            | Planetree | 4/0              | 246.9 | 7         | 60              | 683            | 6610           | 297          | 385                 |

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

