# Covered Line Wire With Crosslinked Polyethylene (XLPE)

Aluminum Conductor Covered with Black Crosslinked Polyethylene

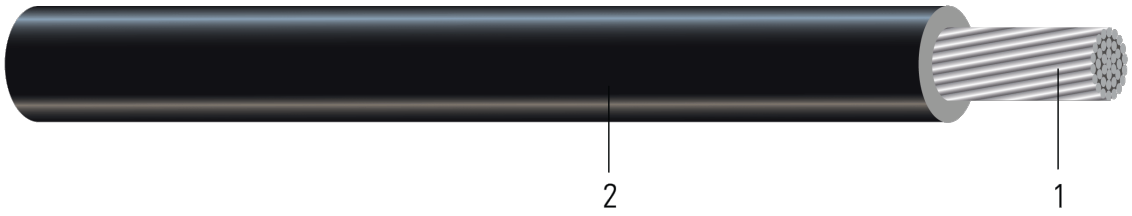



Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Solid 1350-H19 aluminum per ASTM B230, compressed stranded 1350-H19 aluminum per ASTM B230 and B231, or concentrically stranded 6201-T81 aluminum-alloy per ASTM B398 and B399
2. **Covering:** Black Crosslinked Polyethylene (XLPE)

## APPLICATIONS AND FEATURES:

Aluminum alloy 1350-H19 or 6201-T81 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 90ºC
- Emergency Overload of 130ºC
- Short Circuit temperature of 250ºC

## SPECIFICATIONS:

- ASTM B230 Aluminum, 1350-H19 Wire for Electrical Purposes
- ASTM B231 Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors
- ASTM B398 Standard Specification for Aluminum-Alloy 6201-T81 and 6201-T83 Wire for Electrical Purposes
- ASTM B399 Standard Specification for Concentric-Lay-Stranded, Aluminum 1350 Conductors
- ICEA S-70-547 Weather Resistant Polyethylene Covers Conductors

## SAMPLE PRINT LEGEND:

### Solid Conductor:

SOUTHWIRE AWG X AL {MMM/DD/YYYY}

### AAC Conductor:

SOUTHWIRE® XXX.X AWG or KCMIL AAC XX MILS XLP

### AAAC Conductor:

SOUTHWIRE® XXX.X KCMIL AAAC XX MILS XLP



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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 |
| APPLE | 6 | SOLID | 0.162 | 45 | 0.252 | 41 |

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 |
| APPLE | 6 | 0.411 | 0.512 | 0.051 | 0.067 | 75/85 |


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