Covered Line Wire With Crosslinked Polyethylene (XLPE)

Aluminum Conductor Covered with Black Crosslinked Polyethylene

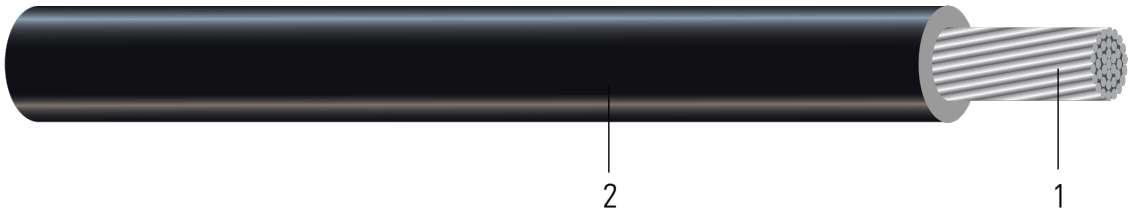

Image not to scale. See Table 1 for dimensions.

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
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

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