Covered Line Wire With Crosslinked Polyethylene (XLPE)

Aluminum Conductor Covered with Black Crosslinked Polyethylene

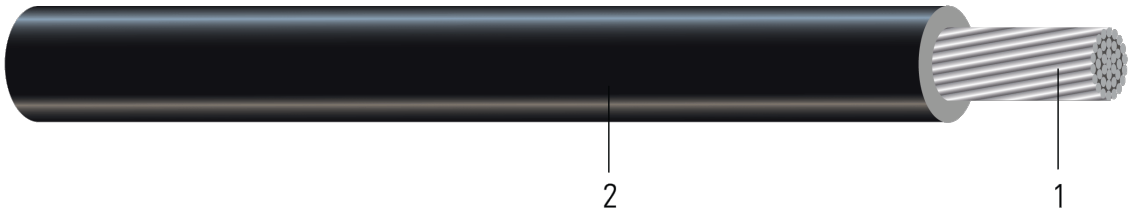


Image not to scale. See Table 1 for dimensions.

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

Stock Number	Code Word	Phase Cond. Size	Phase Strand	Phase Insul. Thickness	Approx. OD	Approx. Weight
		AWG/Kcmil	No.	mil	inch	lb/1000ft
104547	LINDEN	77.47	7	45	0.406	98
104554	OILNUT	123.3	7	60	0.518	158
104570	SHELLBARK	195.7	7	60	0.622	239
104331	HUCKLEBERRY	477	37	80	0.931	540
104349	PAW PAW	556.5	37	80	0.992	622
202127	BREADFRUIT	636	61	95	1.081	721
148460	PERSIMMON	795	61	95	1.187	885
202135	GRAPEFRUIT	1033.5	61	95	1.327	1128
TBA	APPLE	6	SOLID	45	0.252	41
TBA	PLUM	6	7	45	0.268	42
457350	PEAR	4	SOLID	30	0.264	47
663570	APRICOT	4	7	30	0.285	50
TBA	HORNBEAM	4	7	45	0.315	60
TBA	CHERRY	2	SOLID	45	0.348	85
104240	PEACH	2	7	45	0.373	83
TBA	NECTARINE	1	7	60	0.442	118
104257	QUINCE	1/0	7	60	0.477	134
TBA	ORANGE	2/0	7	60	0.525	171
TBA	WATERASH	2/0	7	60	0.525	171
104273	FIG	3/0	7	60	0.57	202
104281	OLIVE	4/0	7	60	0.626	248
TBA	PLANETREE	4/0	7	60	0.632	255
104299	POMEGRANATE	4/0	19	60	0.632	246
104315	ANNONA	336.4	19	60	0.766	375
148130	CHINQUAPIN	350	19	60	0.778	390

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.

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Table 2 – Electrical and Engineering Data

Code Word	Phase Cond. Size
	AWG/Kcmil
LINDEN	77.47
OILNUT	123.3
SHELLBARK	195.7
HUCKLEBERRY	477
PAW PAW	556.5
BREADFRUIT	636
PERSIMMON	795
GRAPEFRUIT	1033.5
APPLE	6
PLUM	6
PEAR	4
APRICOT	4
HORNBEAM	4
CHERRY	2
PEACH	2
NECTARINE	1
QUINCE	1/0
ORANGE	2/0
WATERASH	2/0
FIG	3/0
OLIVE	4/0
PLANETREE	4/0
POMEGRANATE	4/0
ANNONA	336.4
CHINQUAPIN	350

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