

Covered Line Wire With Crosslinked Polyethylene (XLPE)

Aluminum Conductor Covered with Black Crosslinked Polyethylene

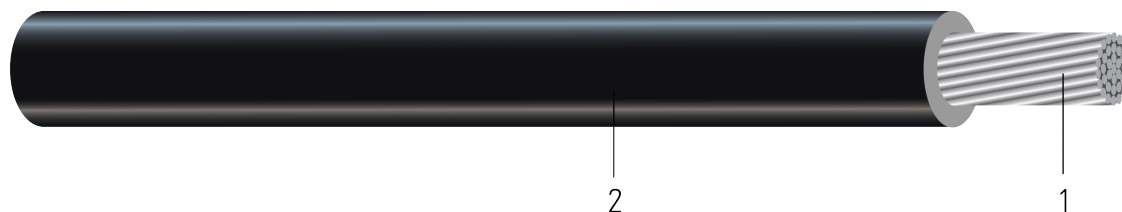


Image not to scale. See Table 1 for dimensions.

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 B400 Standard Specification for Compact Round Concentric-Lay-Stranded, Aluminum 1350 Conductors
- ICEA S-70-547 Weather Resistant Polyethylene Covers Conductors



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

+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.

