

Covered Line Wire With Thermoplastic Polyethylene (PE)

Aluminum Conductor Covered with Black Polyethylene (PE)

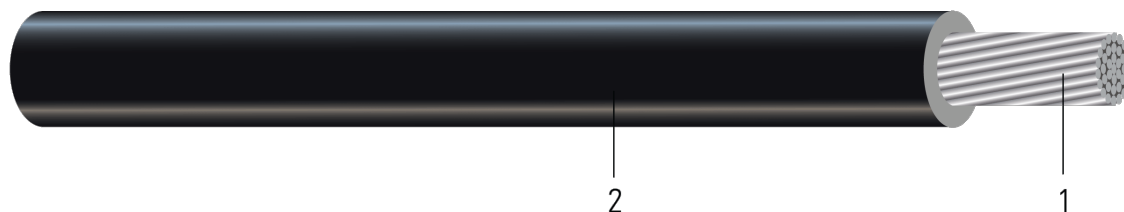


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

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

APPLICATIONS AND FEATURES:

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

- Normal Service temperature of 75°C
- Emergency Overload of 95°C
- Short Circuit temperature of 150°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



Southwire Company, LLC | One Southwire Drive, Carrollton, GA 30119 | www.southwire.com

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Table 1 Weights and Measurements H19

Stock Code	Code Word	Size (AWG or kcmil)	Stranding	Cover Thickness	Total Diameter	Rated Strength	Weight	Allowable Ampacity+
		AWG/Kcmil	No.	mils	mils	lbs	lb/1000ft	amps
	Apple	6	1	30	222	445	31	105
	Plum	6	7	30	238	510	56	105
	Pear	4	1	30	264	710	47	135
102145	Apricot	4	7	30	285	790	51	140
	Cherry	2	1	45	348	1100	78	180
102152	Peach	2	7	45	373	1220	84	180
	Nectarine	1	7	45	408	1470	104	210
102160	Quince	1/0	7	60	477	1790	136	240
	Orange	2/0	7	60	522	2260	167	280
102186	Fig	3/0	7	60	570	2740	205	320
102194	Olive	4/0	7	60	626	3450	253	370
	Pomegranate	4/0	19	60	632	3620	247	370
	Mulberry	266.8	19	60	694	4470	305	430
102228	Annona	336.4	19	60	765	5540	377	495
102236	Molles	397.5	19	80	861	6400	462	545
102244	Huckleberry	477	37	80	931	7820	538	610
	Paw Paw	556.5	37	80	992	8950	619	670
	Breadfruit	636	61	95	1081	10500	715	720
102269	Persimmon	795	61	95	1186	12900	877	825
	Grapefruit	1033.5	61	95	1326	16500	--	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
102442	Hornbeam	4	48.69	7	30	310	1360	60	145
	Linden	2	77.47	7	45	406	2160	99	190
102467	Oilnut	1/0	123.3	7	60	518	3440	159	250
	Waterash	2/0	155.4	7	60	567	4160	195	290
	Shellbark	3/0	195.7	7	60	622	5240	240	335
102491	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.

