Covered Line Wire With Thermoplastic Polyethylene (PE)

Aluminum Conductor Covered with Black Polyethylene (PE)

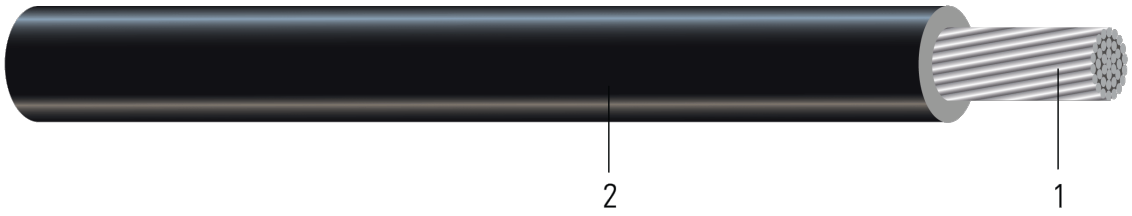


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Conductors are solid or stranded compressed aluminum
2. **Covering:** 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 75ºC
- Emergency Overload of 95ºC
- Short Circuit temperature of 150ºC

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

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UPDATED: Feb. 5, 2025, 2:48 a.m.UTC REVISION: 1.000.009

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
102442	HORNBEAM	48.69	7	30	0.31	59
102467	OILNUT	123.3	7	60	0.518	158
102491	PLANETREE	246.9	7	60	0.683	295
102236	MOLLES	397.5	19	80	0.861	459
102244	HUCKLEBERRY	477	37	80	0.931	540
102269	PERSIMMON	795	61	95	1.187	885
TBA	APPLE	6	SOLID	45	0.252	41
TBA	PLUM	6	7	45	0.268	42
TBA	PEAR	4	SOLID	45	0.294	58
102145	APRICOT	4	7	30	0.285	50
TBA	CHERRY	2	SOLID	45	0.348	85
TBA	LINDEN	2	7	45	0.373	87
102152	PEACH	2	7	45	0.373	83
TBA	NECTARINE	1	7	60	0.442	118
102160	QUINCE	1/0	7	60	0.477	134
TBA	WATERASH	2/0	7	60	0.525	171
TBA	ORANGE	2/0	7	60	0.525	171
102186	FIG	3/0	7	60	0.57	202
TBA	SHELLBARK	3/0	7	60	0.576	209
102194	OLIVE	4/0	7	60	0.626	248
TBA	POMEGRANATE	4/0	19	60	0.632	255
102228	ANNONA	336.4	19	60	0.766	375
621974	ANNONA	336.4	19	60	0.786	388

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
HORNBEAM	48.69
OILNUT	123.3
PLANETREE	246.9
MOLLES	397.5
HUCKLEBERRY	477
PERSIMMON	795
APPLE	6
PLUM	6
PEAR	4
APRICOT	4
CHERRY	2
LINDEN	2
PEACH	2
NECTARINE	1
QUINCE	1/0
WATERASH	2/0
ORANGE	2/0
FIG	3/0
SHELLBARK	3/0
OLIVE	4/0
POMEGRANATE	4/0
ANNONA	336.4
ANNONA	336.4

* Ampacity ratings based on 75ºC conductor temperature 40ºC ambient temperature. Wind speed 2 ft./sec. in sun.
* Diameter equivalent to ACSR construction or 1350 aluminum equivalent.

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