



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 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 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

Stock Number	Code Word	Phase Cond. Size AWG/Kcmil	Phase Strand No.	Phase Insul. Thickness mil	Approx. OD inch	Approx. Weight lb/1000ft
TBA	Apple	6	Solid	30	0.222	31
TBA	Plum	6	7	30	0.238	56
TBA	Pear	4	Solid	30	0.264	47
102145	Apricot	4	7	30	0.285	51
102442	Hornbeam	4	7	30	0.310	60
TBA	Cherry	2	Solid	45	0.348	78
102152	Peach	2	7	45	0.373	84
TBA	Linden	2	7	45	0.406	99
TBA	Nectarine	1	7	45	0.408	104
102160	Quince	1/0	7	60	0.477	136
102467	Oilnut	1/0	7	60	0.518	159
TBA	Orange	2/0	7	60	0.522	167
TBA	Waterash	2/0	7	60	0.567	195
102186	Fig	3/0	7	60	0.570	205
TBA	Shellbark	3/0	7	60	0.622	240
102194	Olive	4/0	7	60	0.626	253
TBA	Pomegranate	4/0	19	60	0.632	247
102491	Planetree	4/0	7	60	0.683	297
TBA	Mulberry	266.8	19	60	0.694	305
102228	Annona	336.4	19	60	0.765	377
621974	Annona	336.4	19	60	0.765	377
102236	Molles	397.5	19	80	0.861	462
102244	Huckleberry	477	37	80	0.931	538
TBA	Paw Paw	556.5	37	80	0.992	619
TBA	Breadfruit	636	61	95	1.081	715
102269	Persimmon	795	61	95	1.186	877
TBA	Grapefruit	1033.5	61	95	1.326	--

All dimensions are nominal and subject to normal manufacturing tolerances





Table 2 – Electrical and Engineering Data

Code Word	Phase Cond. Size AWG/Kcmil	Neutral Rated Breaking Strength lb	Allowable Ampacity In Air 90°C Amp
Apple	6	445	105
Plum	6	510	105
Pear	4	710	135
Apricot	4	790	140
Hornbeam	4	1360	145
Cherry	2	1100	180
Peach	2	1220	180
Linden	2	2160	190
Nectarine	1	1470	210
Quince	1/0	1790	240
Oilnut	1/0	3440	250
Orange	2/0	2260	280
Waterash	2/0	4160	290
Fig	3/0	2740	320
Shellbark	3/0	5240	335
Olive	4/0	3450	370
Pomegranate	4/0	3620	370
Planetree	4/0	6610	385
Mulberry	266.8	4470	430
Annona	336.4	5540	495
Annona	336.4	5540	495
Molles	397.5	6400	545
Huckleberry	477	7820	610
Paw Paw	556.5	8950	670
Breadfruit	636	10500	720
Persimmon	795	12900	825
Grapefruit	1033.5	16500	970

* Inductive impedance is based on non-ferrous conduit with one diameter spacing center-to-center.

