

Aluminum Covered Line Wire



APPLICATION:

Aluminum Covered Line Wire is designed for use on overhead secondary distribution lines. Covered Line Wire is not an electrically insulated conductor and is treated as a bare conductor when installed. The insulation provides protection against circuit interruption due to weather.

CONDUCTORS:

- Concentric stranded 1350-H19, 6201-T81 or ACSR aluminum conductor

COVER:

- Black high density polyethylene (HDPE) or cross-linked polyethylene (XLP)

STANDARDS:

- ASTM B-230 Aluminum 1350-H19 Wire for Electrical Purposes
- ASTM B-231 Concentric-Lay-Stranded Aluminum 1350 Conductors
- ASTM B-232 Concentric-Lay-Stranded Aluminum Conductors, Coated-Steel Reinforced (ACSR)
- ASTM B-399 Concentric-Lay-Stranded Aluminum-Alloy 6201-T81 Conductors
- RUS Accepted

Code Word*	Conductor Size	No. of Strands	Insulation Thickness	Outside Diameter	Rated Strength	Weight		Ampacity**
						XLP	Poly	XLP
	AWG/kcmil	AL/Steel	inches	inches	lbs	lbs/kft	lbs/kft	amps
ACSR Conductors								
Walnut	6	6/1	0.030	0.258	1131	49	47	105
Butternut	4	6/1	0.030	0.303	1760	72	70	135
Hickory	4	7/1	0.030	0.309	2240	82	80	135
Pignut	2	6/1	0.045	0.397	2710	118	115	180
Beech	2	7/1	0.045	0.405	3460	134	131	180
Chestnut	1	6/1	0.045	0.434	3370	146	142	210
Almond	1/0	6/1	0.060	0.506	4160	191	185	235
Pecan	2/0	6/1	0.060	0.554	5040	234	228	270
Fibert	3/0	6/1	0.060	0.607	6290	289	282	305
Buckeye	4/0	6/1	0.060	0.666	7930	366	349	345
Hackberry	266.8	18/1	0.060	0.711	6540	355	347	435

All values are nominal and subject to correction

NOTE: The code words as given apply to conventional high density polyethylene covered ACSR & AAC line wires.

Line wire with AAAC 6201-T81 conductor available upon request.

**Ampacity ratings are based on 75°C conductor temperature 25°C ambient temperature at sea level, emissivity 0.91, coefficient of absorption 0.95, thermal resistivity of covering -375°C-Cm²/watt-CM, wind speed 2ft./sec in sun.

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10-2023

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						XLP lbs/kft	Poly lbs/kft	
AAC Conductors								
Apple	6	Solid	0.030	0.22	445	33	32	105
Pear	4	Solid	0.030	0.26	675	49	47	135
Apricot	4	7	0.030	0.29	790	52	51	140
Peach	2	7	0.045	0.37	1,220	87	84	180
Quince	1/0	7	0.060	0.48	1,790	141	136	240
Orange	2/0	7	0.060	0.52	2,260	172	166	280
Fig	3/0	7	0.060	0.57	2,740	211	204	320
Olive	4/0	7	0.060	0.63	3,450	259	251	370
Mulberry	266.8	19	0.060	0.69	4,470	314	306	430
Anona	336.4	19	0.060	0.77	5,535	388	379	495
Huckleberry	477	37	0.080	0.93	7,820	550	538	610
Paw Paw	556.5	37	0.080	0.99	8,950	633	619	670

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