

Covered Line Wire Aluminum

ACSR/AAC/AAAC, XLPE or PE Insulated



A Viakable Company

Features

Covered Line Cables meet or exceed all applicable requirements of ICEA S-70-547.

Application

These cables are intended primary for the distribution of electrical energy under normal condition of overhead (aerial) installation and service outdoors.

Approved for use on insulators for overhead circuits.

Otherwise treated as a bare conductor.

Standards

ICEA S-70-5 47: Weather-Resistant Polyolefin Covered Wire and Cable.

ASTM B231: Concentric-Lay-Stranded Aluminum 1350 Conductors.

ASTM B232: Specification for Concentric-Lay-Stranded Aluminum Conductors, Coated-Steel Reinforced (ACSR).

ASTM B399: Specification for Concentric-Lay-Stranded Aluminum Alloy 6201-T81 Conductors.

Specifications

Maximum operating voltage:

Coverings carry no voltage rating.

Maximum conductor operation temperatures:

PE

- Normal: 75 °C
- Emergency: 95 °C
- Short Circuit: 150 °C

XLPE

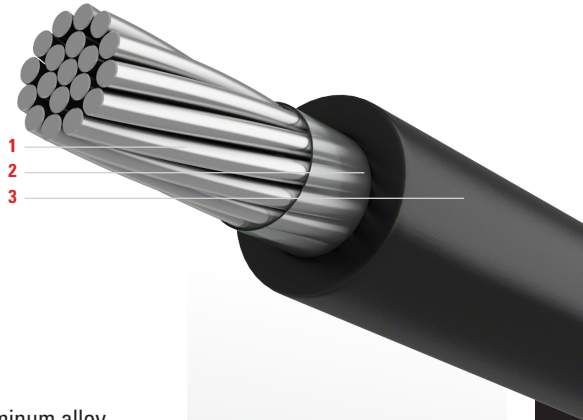
- Normal: 90 °C
- Emergency: 130 °C
- Short Circuit: 250 °C

Engineering Information

1. Conductor: Aluminum alloy 1350-H19 stranded per ASTM B231 or ACSR stranded per ASTM B232 or AAAC stranded per ASTM B399.

2. Separator: A suitable opaque tape, as required.

3. Insulation : Black thermoset cross-linked polyethylene (XLPE) or thermoplastic high density polyethylene (HDPE).



Technical Data

Covered Line Wire ACSR

Code Word	Size AWG or kcmil	Number of Strands	Insulation Thickness mil	Cable OD in	Rated Strength lb	Weight	
						PE lb/kft	XLPE lb/kft
Walnut	6	6/1	30	0.25	1131	47	46
Butternut	4	6/1	30	0.30	1767	71	70
Hickory	4	7/1	30	0.32	2242	82	82
Pignut	2	6/1	45	0.39	2708	116	115
Beech	2	7/1	45	0.42	3458	135	134
Almond	1/0	6/1	60	0.50	4161	188	186
Pecan	2/0	6/1	60	0.55	5035	232	229
Cottonwood	2/0	6/1	80	0.59	5035	247	244
Filbert	3/0	6/1	60	0.60	6289	286	283
Chokeberry	3/0	6/1	80	0.64	6289	303	300
Buckeye	4/0	6/1	60	0.65	7933	353	351
Gumwood	4/0	6/1	80	0.70	7933	372	369
Hackberry	266.8	18/1	60	0.72	6536	356	353
Redbud	266.8	18/1	80	0.76	6536	377	373
Mockernut	336.4	18/1	60	0.79	8246	441	438
Aspen	336.4	18/1	80	0.83	8246	464	460

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.

Ampacities: Refer to beginning of section.

Technical Data *continued*

Covered Line Wire AAC

Code Word	Size AWG or kcmil	Number of Strands	Insulation Thickness	Cable OD	Rated Strength	Weight	
						PE	XLPE
			mil	in	lb	lb/kft	lb/kft
Apple	6	1	30	0.23	445	32	32
Plum	6	7	30	0.25	535	35	35
Pear	4	1	30	0.27	710	48	48
Apricot	4	7	30	0.30	837	52	52
(No Code)	4	7	60	0.36	837	66	65
Cherry	2	1	45	0.35	1100	80	80
Peach	2	7	45	0.39	1283	87	86
Nectarine	1	7	45	0.42	1558	107	106
Quince	1/0	7	60	0.49	1891	140	139
Orange	2/0	7	60	0.54	2385	171	170
Fig	3/0	7	60	0.59	2888	210	208
Lemon	3/0	19	60	0.60	2888	207	206
Olive	4/0	7	60	0.65	3639	258	256
Pomegranate	4/0	19	60	0.65	3639	254	253
Sassafras	250.0	19	60	0.68	4427	295	294
Catalpa	250.0	19	80	0.73	4427	315	313
Mulberry	266.8	19	60	0.72	4589	316	314
Sycamore	300.0	19	80	0.78	5206	370	367
Annona	336.4	19	60	0.79	5843	388	386
Chinquapin	350.0	19	60	0.81	6071	407	409
Ginkgo	350.0	19	80	0.85	6071	427	425
Molles	397.5	19	80	0.89	6755	477	474
Sumac	450.0	37	80	0.94	7496	525	522
Huckleberry	477.0	37	80	0.96	8256	552	549
Tupelo	500.0	37	80	0.98	8322	578	576
Paw Paw	556.5	37	80	1.02	9443	637	634
Tangerine	636.0	37	95	1.12	10830	736	732
Breadfruit	636.0	61	95	1.12	10830	736	732
Persimmon	795.0	61	95	1.23	13585	903	900

Covered Line Wire AAAC

Code Word	Size AWG or kcmil	Number of Strands	Insulation Thickness	Cable OD	Rated Strength	Weight	
						PE	XLPE
			mil	in	lb	lb/kft	lb/kft
Hornbeam	4	7	30	0.31	1672	60	60
Linden	2	7	45	0.41	2660	100	99
Oilnut	1/0	7	60	0.52	4057	161	160
Waterash	2/0	7	60	0.60	5121	201	200
Shellbark	3/0	7	60	0.63	6451	242	241
Planetree	4/0	7	60	0.69	8132	298	297

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.

Ampacities: Refer to beginning of section.