



• Application

Covered line wire AAC (All Aluminum Conductor) conductors are used in a variety of applications where the conductor needs to be protected from environmental factors such as moisture, chemicals, and physical damage. They are commonly used in underground power distribution systems, industrial settings, and in areas where overhead lines are not feasible or desirable.

• Advantage

Electrical Insulation: The PVC covering provides excellent electrical insulation, which is crucial for preventing short circuits and ensuring the safety of the system.

Mechanical Protection: The PVC layer protects the aluminum conductor from mechanical damage, such as abrasion, impact, and bending, which can occur during installation or due to environmental factors.

Chemical Resistance: PVC is resistant to a wide range of chemicals, including acids, alkalis, and oils, which makes the conductor suitable for use in harsh industrial environments.

Weather Resistance: The PVC covering offers protection against weathering, UV radiation, and temperature extremes, ensuring the longevity of the conductor in outdoor applications.

Flame Retardancy: PVC has inherent flame retardant properties, which reduce the risk of fire in case of overheating or short circuits.

• Construction

Covered Line Wires for AAC conductors are constructed using a combination of materials designed to optimize both electrical and mechanical performance:

Core: Aluminum strands.

Outer Layers: Aluminum 1350-H19 wires concentrically stranded around the steel core to provide excellent conductivity.

Covering Materials: The conductors are weatherproofed with high-quality materials:

Polyethylene (PE): Basic protection against weather and abrasion.

High Density Polyethylene (HDPE): Improved durability and environmental stress resistance.

Crosslinked Polyethylene (XLPE): Superior thermal resistance, mechanical strength, and longevity.

• Specification

-ASTM B-230 - Aluminum 1350-H19 Wire for Electrical Purposes.

-ASTM B-231 - Concentric-lay-stranded Aluminum Conductors, Coated-steel Reinforced (ACSR).

-ASTM B-1248 - Polyethylene Plastics Molding and Extrusion Materials.

-ASTM C-8.35 - Specifications for Weather-resistant Polyethylene-Covered Wire and Cable.

-ICEA S-70-547-Covered Line Wire Aluminum Conductor

-NEMA PUB NO. WC 5-1973 - Standards Publication Thermoplastic Insulated Wire and Cable for the Transmission and Distribution of Electrical Energy.

• Eastful Cable Lab



We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.

CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

• Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rheinland and CCS.



• National Green Factory



Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China.

We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

● Technical Parameters

Code Name	Size	No. of Wires	Insulation Thickness	Nominal Diameter		Rated Strength	Nominal Weight				Ampacity
				Conductor	Cable		Aluminum	LDPE	HDPE	XLPE	
-	AWG or kcmil	-	mm	mm	mm	kg	kg/km	kg/km	kg/km	kg/km	A
Plum	6	7	0.762	4.674	6.198	255	36.61	50.66	51.27	51.27	100
Apricot	4	7	0.762	5.715	7.239	400	58.19	75.57	76.33	76.33	135
Peach	2	7	1.143	7.417	9.703	612	92.56	126.09	127.55	127.55	180
Nectarine	1	7	1.143	8.433	11.481	789	116.67	167.31	169.52	169.52	210
Quince	1/0	7	1.524	9.347	12.395	903	147.48	203.70	206.14	206.14	240
Haw	1/0	19	1.524	9.474	12.522	980	147.48	204.49	206.96	206.96	240
Orange	2/0	7	1.524	11.786	14.834	1139	186.02	257.90	261.02	261.02	280
Lronwood	2/0	19	1.524	10.643	13.691	1211	186.02	250.41	253.21	253.21	280
Fig	3/0	7	1.524	13.259	16.307	1377	233.64	315.53	319.08	319.08	320
Lemon	3/0	19	1.524	11.938	14.986	1501	233.64	306.53	309.70	309.70	320
Olive	4/0	7	1.524	13.259	16.307	1728	296.14	378.04	381.58	381.58	370
Pomegranate	4/0	19	1.524	13.411	16.459	1823	296.14	379.09	382.69	382.69	370
Sassafras	250	19	1.524	14.580	17.628	2043	348.68	439.88	443.84	443.84	420
Mulberry	266.8	19	1.524	14.605	17.653	2182	372.19	463.59	467.55	467.55	460
Basswood	300	19	1.524	15.951	18.999	2404	419.66	520.91	525.30	525.30	478
Anona	336.4	19	1.524	16.916	19.964	2697	469.51	578.04	582.75	582.75	495
Chinquapin	350	19	1.524	17.221	20.269	2790	488.12	598.98	603.79	603.79	525
Molles	397.5	19	2.032	18.390	22.454	3123	555.08	707.29	713.88	713.88	550
Sumac	450	37	2.032	19.609	23.673	3719	628.00	791.79	798.89	798.89	600
Huckleberry	477	37	2.032	20.193	24.257	3810	665.21	834.63	841.98	841.98	610
Paw Paw	556.5	37	2.032	-	-	-	-	-	-	-	670
Breadfruit	636.0	61	2.413	-	-	-	-	-	-	-	720
Persimmon	795	61	2.413	-	-	-	-	-	-	-	825
Grapefruit	1033.5	61	2.413	-	-	-	-	-	-	-	970