



• Application

Covered Line Wire AAC(Aluminum Conductor) with PVC insulation 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: PVC layer, providing electrical insulation and protection against mechanical damage, moisture, and chemical corrosion..

• Specification

-DIN 48201: Aluminum conductors for overhead lines

• 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

Nominal Cross Section Area	Calculated Cross Section Area	Wires		Approx Overall Dia.	Nominal Breaking Load	Max.D.C. Resistance at 20°C	Alum. Weight	Overall Dia.	Total Weight	Packing Length
mm ²	mm ²	No.	Dia.	mm	kN	Ω/km	kg/km	mm	kg/km	m±5%
16	15.89	7	1.7	5.1	2.84	1.802	44	7.3	77	3000
25	24.25	7	2.1	6.3	4.17	1.181	67	8.5	108	3000
35	34.36	7	2.5	7.5	5.78	0.8317	94	9.7	143	3000
50	49.48	7	3.0	9.0	7.94	0.5787	135	11.2	196	3000
50	48.35	19	1.8	9.0	8.45	0.5950	133	11.2	187	3000
70	65.81	19	2.1	10.5	11.32	0.4371	181	12.7	243	2000
95	93.27	19	2.5	12.5	15.68	0.3085	256	14.7	333	2000
120	117.0	19	2.8	14.0	18.78	0.2459	322	16.2	410	2000
150	147.1	37	2.25	15.7	25.30	0.1960	406	17.9	498	2000
185	181.6	37	2.5	17.5	30.54	0.1587	501	19.7	606	2000
240	242.5	61	2.25	20.2	39.51	0.1191	670	22.4	787	2000
300	299.4	61	2.5	22.5	47.70	0.0965	827	24.7	959	2000
400	400.1	61	2.89	26.0	60.86	0.0722	1105	28.2	1262	2000
500	499.8	61	3.23	29.1	74.67	0.0578	1381	31.3	1561	2000