



• Application

Covered Line Wire with AAC (Aluminum Conductor) and PVC insulation is used in various settings where the conductor needs protection from environmental factors such as moisture, chemicals, and physical damage. Common applications include underground power distribution systems, industrial environments, and areas where overhead lines are impractical or undesirable.

• 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 with AAC conductors are designed to optimize both electrical and mechanical performance:

Core: Made up of aluminum strands that provide excellent conductivity.

Outer Layers: Aluminum 1350-H19 wires are concentrically stranded around the core to enhance mechanical strength and durability.

Covering Materials: A PVC layer provides electrical insulation and protection against mechanical damage, moisture, and chemical corrosion.

• Specification

-BS 215: Aluminum conductors used in overhead power lines

-BS 6485: PVC-covered conductors used in overhead power 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

Code Name	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%
Midge	22	23.33	7	2.06	6.2	3.99	1.227	64	8.4	106	3000
Aphis	25	26.44	3	3.35	7.2	4.11	1.081	73	9.2	133	3000
Gnat	25	26.8	7	2.21	6.6	4.59	1.066	73	8.8	116	3000
Weevil	30	31.6	3	3.66	7.9	4.86	0.9082	86	10.1	158	3000
Mosquito	35	37	7	2.59	7.8	6.03	0.7762	101	10.0	158	3000
Ladybird	40	42.8	7	2.79	8.4	6.87	0.6689	117	10.6	177	3000
Ant	50	52.83	7	3.1	9.3	8.28	0.5419	145	11.5	212	3000
Fly	60	63.55	7	3.4	10.2	9.9	0.4505	174	12.4	249	2500
Bluebottle	70	73.55	7	3.66	11.0	11.34	0.3881	202	13.2	285	2500
Earwing	75	78.5	7	3.78	11.4	11.94	0.3644	215	13.6	302	2000
Grasshopper	80	84.1	7	3.91	11.7	12.78	0.3406	230	13.9	319	2000
Clegg	90	95.6	7	4.17	12.5	14.53	0.2994	262	14.7	359	2000
Wasp	100	108	7	4.39	13.21	16.0	0.2702	290	15.4	393	3000
Beetle	100	106.6	19	2.67	13.4	17.42	0.2704	293	15.6	387	3000
Bee	125	132	7	4.9	14.7	19.94	0.2169	361	16.5	482	2500
Cricket	150	157.9	7	5.36	16.1	23.85	0.1813	432	18.3	587	2000
Hornet	150	157.6	19	3.25	16.3	27.7	0.1825	434	18.5	638	3000
Caterpillar	175	186	19	3.53	17.7	28.63	0.1547	512	19.9	646	2500
Chafer	200	213.2	19	3.78	18.9	32.4	0.1349	587	21.1	733	2000
Spider	225	236.9	19	3.99	20.0	36.01	0.1211	652	22.2	809	2000
Cockroach	250	265.7	19	4.22	21.1	40.4	0.1083	731	23.3	900	3000
Butterfly	300	322.7	19	4.65	23.3	48.7	0.08916	888	25.5	1082	3000
Moth	350	373.2	19	5.0	25.0	56.37	0.07711	1027	27.2	1241	2500
Drone	350	373.3	37	3.58	25.1	57.45	0.07741	1029	27.3	1222	2500
Locust	400	428.5	19	5.36	26.8	64.73	0.0671	1179	29	1416	2000
Centipede	400	415.2	37	3.78	26.5	63.1	0.06944	1145	28.7	1363	2000
Maybug	450	486.9	37	4.09	28.6	74.01	0.05931	1342	30.8	1573	2000
Scorpion	500	529.5	37	4.27	29.9	79.98	0.05441	1460	32.1	1706	1500
Clcada	600	628.6	37	4.65	32.6	94.95	0.04586	1733	34.5	2010	1500
Tarantula	750	794.8	37	5.23	36.6	120.1	0.03627	2191	38.5	2519	1000