



• Application

AAC conductors, also referred to as aluminum stranded conductors, conforming to British Standards, find extensive use in overhead power transmission systems. They serve as aerial conductors for transmission and distribution lines, particularly over lengthy distances where situating them out of reach is imperative. The selection of compatible cables is influenced by factors such as distance, environmental conditions, and geographical location. AAC conductors are prevalent in urban areas characterized by frequent supports and short spans, as well as in coastal regions due to their corrosion-resistant attributes, rendering them suitable for railway electrification overhead lines. Additionally, they are favored for their reliability and efficiency in delivering electricity across various terrains.

• Advantages

Bare conductors AAC are highly valued for their lightweight nature, offering flexibility and ease of installation. Their versatility is evident in their ability to be employed in a variety of installation types, with no specified voltage rating, making suitability contingent upon the specific application. This flexibility ensures adaptability to diverse power distribution scenarios, enhancing overall system efficiency and reliability.

• Construction

AAC conductors are constructed using aluminum 1350-H19 wires, which are concentrically stranded with successive layers having an opposite direction of lay, with the outermost layer being right-handed. This construction technique ensures uniformity and strength throughout the conductor, enabling it to withstand the rigors of overhead installations while maintaining optimal electrical conductivity.

• Specifications

- BS 26273 Aluminum Wire Material GIE in the H9 Condition
- BS 215 Part 1 Standard Aluminum Conductors

• 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 Rhineland 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	No./Dia. of Aluminum Wires	Calculated Cross Section Area	Overall Dia.	Nominal Weight	Max. D.C. Resistance at 20℃	Calculated Breaking Load	Final Modulus of Elasticity	Coeff. of Linear Expansion
-	mm ²	No./mm	mm ²	mm	kg/km	Ω/km	daN	GPa	/℃
Midge	22	7/2.06	23.33	6.18	64	1.227	399	5900	23×10 ⁻⁶
Aphis	25	3/3.35	26.40	7.2	73	1.081	411	5900	23×10 ⁻⁶
Gnat	25	7/2.21	26.8	6.6	73	1.066	459	5900	23×10 ⁻⁶
Weevil	30	3/3.66	31.6	7.9	86	0.9082	486	5900	23×10 ⁻⁶
Mosquito	35	7/2.59	37.0	7.8	101	0.7762	603	5900	23×10 ⁻⁶
Ladybird	40	7/2.79	42.8	8.4	117	0.6689	687	5900	23×10 ⁻⁶
Ant	50	7/3.10	52.83	9.30	145	0.5419	828	5900	23×10 ⁻⁶
Fly	60	7/3.40	63.55	10.20	174	0.4505	990	5900	23×10 ⁻⁶
Bluebottle	70	7/3.66	73.7	11.0	202	0.3881	1134	5900	23×10 ⁻⁶
Earwing	75	7/3.78	78.5	11.4	215	0.3644	1194	5900	23×10 ⁻⁶
Grasshopper	80	7/3.91	84.1	11.7	230	0.3406	1278	5900	23×10 ⁻⁶
Clegg	90	7/4.17	95.6	12.5	262	0.2994	1453	5900	23×10 ⁻⁶
Wasp	100	7/4.39	106.0	13.17	290	0.2702	1600	5900	23×10 ⁻⁶
Beetle	100	19/2.67	106.0	13.4	293	0.2704	1742	5600	23×10 ⁻⁶
Bee	125	7/4.90	132.0	14.7	361	0.2169	1944	5900	23×10 ⁻⁶
Cricket	150	7/5.36	157.9	16.1	432	0.1818	2385	5900	23×10 ⁻⁶
Hornet	150	19/3.25	157.6	16.25	434	0.1825	2570	5600	23×10 ⁻⁶
Caterpillar	175	19/3.53	186	17.7	512	0.1547	2863	5600	23×10 ⁻⁶
Chafer	200	19/3.78	231.2	18.9	587	0.1349	3240	5600	23×10 ⁻⁶
Spider	225	19/3.99	236.9	20.0	652	0.1211	3601	5600	23×10 ⁻⁶
Cockroach	250	19/4.22	265.7	21.10	731	0.1083	4040	5600	23×10 ⁻⁶
Butterfly	300	19/4.65	322.7	23.25	888	0.08916	4875	5600	23×10 ⁻⁶
Moth	350	19/5.00	373.2	25.0	1027	0.07711	5637	5600	23×10 ⁻⁶
Drone	350	37/3.58	373.3	25.1	1029	0.07741	5745	5600	23×10 ⁻⁶
Locust	400	19/5.36	428.5	26.8	1179	0.06710	6473	5600	23×10 ⁻⁶
Centipede	400	37/3.78	415.2	26.46	1145	0.06944	6310	5600	23×10 ⁻⁶
Maybug	450	37/4.09	486.9	28.6	1342	0.05931	7401	5600	23×10 ⁻⁶
Scorpion	500	37/4.27	529.5	29.9	1460	0.05441	7998	5600	23×10 ⁻⁶
Cicada	600	37/4.65	628.6	32.6	1733	0.04588	9495	5600	23×10 ⁻⁶
Tarantula	750	37/5.23	794.6	36.6	2191	0.03627	12010	5600	23×10 ⁻⁶