



• Application

AAC (All Aluminum Conductor), also known as aluminum stranded conductor, is covered under the JIS C 3109 standard. This standard specifies stranded hard-drawn aluminum conductors primarily used for overhead distribution wires, overhead feeders, and buses. AAC conductors are widely utilized in electrical transmission and distribution systems due to their excellent conductivity and cost-effectiveness.

• Advantages

Simple Structure: The design of AAC conductors is straightforward, making them easy to handle and install.

Convenient Installation and Maintenance: Due to their lightweight and simple construction, AAC conductors are easier to install and maintain compared to other types of conductors.

Cost-Effective: AAC conductors offer a low-cost solution for electrical transmission lines, making them economically advantageous.

Large Transmission Capacity: These conductors are capable of transmitting significant amounts of electrical power, suitable for both medium and high-voltage applications.

Corrosion Resistance: The aluminum material provides good resistance to atmospheric corrosion, enhancing the conductor's durability and longevity in various environmental conditions.

• Construction

AAC is a concentric-lay-stranded conductor consisting of aluminum alloy 1350-H19 wires. These conductors are available in both single-layer and multi-layer constructions, depending on the required current-carrying capacity and mechanical strength. The concentric stranding ensures uniformity and stability, contributing to the overall performance and reliability of the conductor.

• Specifications

-JIS C 3109:1994 Hard-drawn aluminium stranded 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 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	No. and Dia. of Strands	Tensile Load (above)	Calculated Cross Sectional Area	Outside Dia.	Weight	Electric Resistance at 20℃	Hard-drawn Copper Equiv. Area	Standard Length
mm	mm	kgf	mm ²	mm	kg/km	Ω/km	mm ²	m
22	7/2.0	369	21.99	6.0	60.09	1.301	14	2,000
30	7/2.3	469	29.09	6.9	79.40	0.984	18	1,800
38	7/2.6	576	37.16	7.8	101.5	0.769	23	1,800
45	7/2.9	699	46.24	8.7	126.3	0.619	29	1,000
55	7/3.2	838	56.29	9.6	153.8	0.507	35	1,000
75	7/3.7	1,120	75.25	11.1	205.6	0.380	47	1,900
95	7/4.2	1,410	96.95	12.6	264.9	0.295	60	1,000
100	19/2.6	1,560	100.9	13.0	276.4	0.284	63	2,400
125	19/2.9	1,900	125.5	14.5	343.9	0.229	79	2,000
150	19/3.2	2,270	152.8	16.0	418.7	0.188	96	1,500
200	19/3.7	3,030	204.3	18.5	559.8	0.140	128	1,300
200	37/2.6	3,050	196.4	18.2	541.3	0.147	124	2,400
240	19/4.0	3,490	238.8	20.0	654.5	0.120	150	1,300
250	37/2.9	3,700	244.4	20.3	673.6	0.118	154	2,000
300	37/3.2	4,430	297.6	22.4	820.1	0.0969	187	1,500
325	61/2.6	5,020	323.8	23.4	894.2	0.0892	204	1,200
400	37/3.7	5,890	397.8	25.9	1,097	0.0726	250	1,300
460	37/4.0	6,760	465.1	28.0	1,282	0.0621	292	1,000
500	61/3.2	7,300	490.6	28.8	1,355	0.0589	309	800
510	37/4.2	7,460	512.5	29.4	1,413	0.0563	322	1,300
590	61/3.5	8,730	586.9	31.5	1,621	0.0493	369	1,350
660	61/3.7	9,720	655.8	33.3	1,812	0.0441	412	1,300
725	91/3.2	10,890	731.8	35.2	2,027	0.0396	460	800
770	61/4.0	11,140	766.8	36.0	2,118	0.0377	482	1,000
850	61/4.2	12,300	844.9	37.8	2,334	0.0342	531	1,300
880	91/3.5	13,020	875.5	38.5	2,426	0.0331	551	700
980	91/3.7	14,500	978.3	40.7	2,716	0.0297	615	600
1,000	127/3.2	15,200	1,021	41.6	2,840	0.0285	642	800
1,260	91/4.2	18,350	1,260	46.2	3,499	0.0230	792	600