



• Application

Bare AAC conductors are extensively used for power transmission on overhead lines, suitable for transmission and distribution lines of various voltage levels. Aluminum conductor AAC is primarily deployed in areas with short intervals or close supports, commonly found between cities. Aerial conductors on transmission and distribution lines are typically specified for covering significant distances and positioning cables out of reach. Factors such as distance, environmental conditions, and location play crucial roles in specifying compatible cables.

• Advantages

Good Economic Benefit: The lightweight nature of AAC conductors translates to a lower cost per unit length, making them economically advantageous. Conforming to the IEC 61089 Standard, AAC conductors are easier to handle and feature simpler fittings during installation. **Excellent Corrosion Resistance:** AAC conductors boast high corrosion resistance due to their well-distributed construction, ensuring durability even in harsh environmental conditions.

• Construction

Constructed with aluminum 1350-H19 wires, AAC conductors feature concentric stranding with successive layers having an opposite direction of lay, with the outermost layer being right-handed. This construction design enhances mechanical strength and flexibility, facilitating easy installation and maintenance of overhead power lines.

• Specifications

-IEC 61089 Standard All Aluminum Conductor

• 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	Stranding Wires		Nominal Overall Diameter	Nominal Weight	Rated Strengt	Coefficient of Linear Expansion	Max.D.C. Resistance at 20℃
		No.	Diameter					
mm ²	mm ²	-	mm	mm	kg/km	kN	/℃	Ω/km
10	10.02	7	1.35	4.05	27.4	1.95	23×10 ⁻⁶	2.8633
16	16.08	7	1.71	5.12	43.8	3.04	23×10 ⁻⁶	1.7896
25	24.94	7	2.13	6.40	68.4	4.50	23×10 ⁻⁶	1.1453
40	40.08	7	2.70	8.09	109.4	6.80	23×10 ⁻⁶	0.7158
63	63.18	7	3.39	10.2	172.3	10.39	23×10 ⁻⁶	0.4545
100	100.10	19	2.59	12.9	274.8	17.00	23×10 ⁻⁶	0.2877
125	124.63	19	2.89	14.5	343.6	21.75	23×10 ⁻⁶	0.2302
160	159.56	19	3.27	16.4	439.8	26.40	23×10 ⁻⁶	0.1798
200	199.89	19	3.66	18.3	549.7	32.00	23×10 ⁻⁶	0.1439
250	249.62	19	4.09	20.5	687.1	40.00	23×10 ⁻⁶	0.1151
315	314.54	37	3.29	23.0	867.9	51.97	23×10 ⁻⁶	0.0916
400	410.79	38	3.71	26.0	1102.0	64.00	23×10 ⁻⁶	0.0721
450	475.49	39	3.94	27.5	1239.8	72.00	23×10 ⁻⁶	0.0641
500	541.06	40	4.15	29.0	1377.6	80.00	23×10 ⁻⁶	0.0577
560	620.58	41	4.39	30.7	1542.9	89.60	23×10 ⁻⁶	0.0515
630	631.29	61	3.63	32.6	1738.3	100.08	23×10 ⁻⁶	0.0458
710	710.13	61	3.85	34.6	1959.1	113.60	23×10 ⁻⁶	0.0407
800	801.42	61	4.09	36.8	2207.4	128.00	23×10 ⁻⁶	0.0361
900	898.24	61	4.33	39.0	2483.3	144.00	23×10 ⁻⁶	0.0321
1000	1000.57	61	4.57	41.1	2759.2	160.00	23×10 ⁻⁶	0.0289
1120	1120.77	91	3.96	43.5	3093.5	179.20	23×10 ⁻⁶	0.0258
1250	1248.76	91	4.18	46.0	3452.6	200.00	23×10 ⁻⁶	0.0231
1400	1402.60	91	4.43	48.7	3866.9	224.00	23×10 ⁻⁶	0.0207
1500	1499.19	91	4.58	50.4	4143.1	240.00	23×10 ⁻⁶	0.0193