



## • Application

The GOST 839-80 Aluminum Conductor Steel Reinforced(AAAC) serves primarily as a bare overhead transmission cable for power distribution networks. Its versatility extends to both primary and secondary distribution, making it a suitable choice for diverse electrical applications. Additionally, AAAC is well-suited for installation in challenging terrains like basins, rivers, and valleys due to its robust construction and corrosion resistance.

## • Advantages

GOST 839-80 Aluminum Conductor Steel Reinforced (AAAC) offers several advantages including lightweight construction, high strength, corrosion resistance, reduced sag, efficient power transmission, versatility for diverse applications, easy installation, and compliance with quality standards. These features make AAAC conductors a reliable choice for overhead transmission lines and distribution networks, ensuring durability, efficiency, and cost-effectiveness in power transmission systems.

## • Construction

The AAAC cable comprises aluminum alloy wires, which are concentrically stranded to form a durable and resilient structure. These aluminum alloy wires are heat treatable, conforming to the applicable International Standard. The electrical and mechanical properties of these wires align with the values specified by the relevant standard, ensuring consistent performance and reliability. AAAC conductors present a favorable alternative to traditional Aluminum Conductor Steel Reinforced (ACSR) cables in such scenarios, providing efficient power transmission while minimizing structural strain.

## • Specifications

-GOST 839-80 AAAC Conductor, Type Ah, All Aluminium Alloy Conductor  
-GOST 839-80 AAAC Conductor, Type Ankp, All Aluminium Alloy 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, TUV 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

AAAC Conductor, Type Ah, All Aluminium Alloy Conductor (GOST 839-80)						
Nominal Cross Section Area	Calculated Cross Section Area	Number of Wires	Conductor Diameter	D.C. Resistance at 20°C	Min. Breaking Load	Conductor Weight
mm <sup>2</sup>	mm <sup>2</sup>		mm	Ω	N	kg/km
16	15.9	7	5.1	1.9037	3734	43
25	24.9	7	6.4	1.2139	5370	68
35	34.3	7	7.5	0.8819	7389	94
50	49.5	7	9	0.6121	10662	135
120	117	19	14	0.2609	25186	321
150	148	19	15.8	0.2059	31900	406
185	182.3	19	17.5	0.1669	39386	502

AAAC Conductor, Type Ankp, All Aluminium Alloy Conductor (GOST 839-80)							
Nominal Cross Section Area	Calculated Cross Section Area	Number of Wires	Conductor Diameter	D.C. Resistance at 20°C	Min. Breaking Load	Conductor Weight	Grease Weight
mm <sup>2</sup>	mm <sup>2</sup>		mm	Ω	N	kg/km	kg/km
16	15.9	7	5.1	1.9037	3734	43	0.5
25	24.9	7	6.4	1.2139	5370	68	0.5
35	34.3	7	7.5	0.8819	7389	94	0.5
50	49.5	7	9	0.6121	10662	135	—
120	117	19	14	0.2609	25186	321	—
150	148	19	15.8	0.2059	31900	406	—
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