



• Application

NF C34-125 AAACSR conductors are widely used as bare overhead transmission cables and in primary and secondary distribution networks. Their unique composition provides optimal strength for efficient line design. The variable steel core stranding allows for achieving the desired strength without compromising ampacity requirements.

• Advantages

High Strength: AACSR conductors offer superior mechanical strength due to the steel core, allowing for longer spans between supports and reduced sag in overhead transmission lines.

Lightweight: Despite the steel core, AACSR conductors are lighter than traditional ACSR (Aluminium Conductor Steel Reinforced) conductors, making them easier to handle and install.

Enhanced Conductivity: The aluminum alloy outer strands provide excellent electrical conductivity, ensuring efficient power transmission with minimal energy loss.

Resistance to Corrosion: AACSR conductors are designed to withstand environmental factors such as moisture, temperature variations, and atmospheric corrosion, ensuring long-term durability and reliability.

• Construction

AACSR conductors consist of concentrically stranded 6201-T81 aluminum alloy wires surrounding a high-strength coated steel core. The core may be comprised of single wire or stranded configurations, depending on the conductor size. The aluminum alloy and steel proportions can be adjusted to achieve the ideal balance between current-carrying capacity and mechanical strength for each application. Core wires for AACSR are available with Class A, B, or C galvanizing, "aluminized" aluminum-coated (AZ), or aluminum-clad (AW) options. Additional corrosion protection can be applied by greasing the core or infusing the entire cable with grease for enhanced durability.

• Specifications

-NF C34-125 Standard AACSR 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

Aluminium		Steel		Calculated Cross Sectional Area			Overall Diameter	D.C. Resistance at 20C
Strands	Wire Dia.	Strands	Wire Dia.	Aluminium	Steel	Total		
	mm		mm		mm ²		mm	Ω/km
18	2	19	2	56.5	59.7	116.2	14	0.591
18	2.25	19	2.3	71.6	75.5	147.1	15.75	0.467
30	2.25	7	2.3	119.3	27.8	147.1	15.75	0.279
18	2.5	19	2.5	88.4	93.3	181.6	17.5	0.378
30	2.5	7	2.5	147.3	34.4	181.6	17.5	0.226
18	2.8	19	2.8	110.8	117	227.8	19.6	0.3
30	2.8	7	2.8	184.7	43.1	227.8	19.6	0.18
18	3.15	19	3.2	140.3	148.1	288.3	22.05	0.238
30	3.15	7	3.2	233.8	54.6	288.3	22.05	0.142
42	2.5	19	2.5	206.2	93.3	299.4	22.45	0.162
24	2.8	37	2.8	147.8	227.8	375.6	26.4	0.226