Application

Aluminum-clad steel wire serves a multitude of purposes in power transmission, distribution, overhead lines, and grounding systems. Its exceptional strength and flexibility make it particularly well-suited for regions prone to harsh weather conditions like ice storms and hurricanes. Its lightweight design reduces sagging, thereby lowering the need for frequent maintenance, making it an ideal choice for a wide range of applications.

Characteristic

Conforming to the DIN 48201 standard, aluminum-clad steel stranded wire combines a high-strength steel core with a layer of pure aluminum, ensuring optimal conductivity, strength, and longevity. Its compact construction allows for maximum performance, while its remarkable flexibility facilitates effortless installation and customization for specific requirements. Available in various sizes, it effortlessly meets diverse power and voltage demands.

Advantage

Firstly, its reduced weight compared to solid steel wire simplifies both installation and transportation. It maintains high tensile strength akin to solid steel wire, ensuring dependable performance.
Secondly, the aluminum layer provides exceptional corrosion resistance, making it suitable for challenging environments such as coastal regions and industrial zones. Furthermore, its superior conductivity enhances power transmission efficiency, effectively minimizing power loss.

Construction

Concentric-stranded conductors made from round aluminum clad steel core wires.

Specification

-DIN 48201 Standard Aluminum Clad Steel Stranded wire

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

Nominal Cross Section Area	Calculated Cross Section Area	No.of Single Wires	Approx. Overall Diameter		Approx. Weight	Rated Strength	Coeff. of Linear Expansion	Max. D.C. Resistance at 20°C
			Single Wire	Conductor				
mm^2	mm^2	-	mm	mm	kg/km	kN	$\times 10^{-6}/°C$	Ω/km
25	24.25	7	2.10	6.30	162.0	31.56	12.9	3.5460
35	34.36	7	2.50	7.50	229.0	44.72	12.9	2.4990
50	49.48	7	3.00	9.00	330.0	64.4	12.9	1.7360
70	65.81	19	2.10	10.5	441.0	85.65	12.9	1.3130
95	93.27	19	2.50	12.5	626.0	121.39	12.9	0.9250
120	116.99	19	2.80	14.0	785.0	152.26	12.9	0.7370
150	147.11	37	2.25	15.7	990.0	191.46	12.9	0.5870
185	181.62	37	2.50	17.5	1221.0	236.38	12.9	0.4760
240	242.54	61	2.25	20.2	1635.0	299.05	12.9	0.3570
300	299.43	61	2.50	22.5	2017.0	369.20	12.9	0.2890