Application

All Aluminum Alloy Conductor 6201 (AAAC) is extensively used as a bare overhead conductor for both primary and secondary distribution networks. Engineered with a high-strength aluminum alloy, these conductors feature a superior strength-to-weight ratio, resulting in improved sag characteristics. The use of aluminum alloy 6201 enhances AAAC's resistance to corrosion, making it more durable than traditional ACSR conductors.

Advantages

Standard 6201 alloy conductors are developed to meet the demand for a cost-effective solution in overhead applications requiring higher strength than 1350-grade aluminum conductors, without the inclusion of a steel core. The DC resistance at 20℃ of 6201-T81 conductors is comparable to that of standard ACSR of the same diameter. However, conductors made of 6201-T81 alloys are harder, providing greater resistance to abrasion compared to 1350-H19 grade aluminum conductors.

Construction

Standard 6201-T81 high-strength aluminum conductors, compliant with ASTM Specification B-399, are concentric-lay-stranded, resembling the construction and appearance of 1350-grade aluminum conductors. This meticulous construction ensures optimal performance and durability in overhead distribution applications.

Key Features

Strength and Sag Characteristics: The high-strength aluminum alloy provides excellent sag performance and structural integrity.
Corrosion Resistance: Enhanced resistance to corrosion ensures a longer service life, even in harsh environmental conditions.
Abrasion Resistance: The harder alloy composition offers superior resistance to wear and mechanical damage.
Cost-Effectiveness: Provides a high-strength, steel-free solution for overhead applications, making it a cost-effective alternative to traditional conductors.

Specifications

-ASTM B-398 Aluminum Alloy 6201-T81 Wire for Electrical Purposes
-ASTM B-399 Concentric-lay-stranded 6201-T81 Aluminum Alloy 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 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

Code Name	Cross Section Area		Size&Stranding of ACSR with Equal Diameter		No./Dia. of Single Wires	Nominal Overall Diameter	Nominal Weight	Nominal Breaking Load
	Nominal	Actual						
-	MCM	mm²	AWG or MCM	Al./Steel	mm	mm	kg/km	kN
Akron	30.58	15.48	6	6/1	7/1.68	5.04	42.7	4.92
Alton	48.69	24.71	4	6/1	7/2.12	6.35	68.0	7.84
Ames	77.47	39.22	2	6/1	7/2.67	8.02	108	12.45
Azusa	123.3	62.38	1/0	6/1	7/3.37	10.11	172	18.97
Anaheim	155.4	78.65	2/0	6/1	7/3.78	11.35	217	23.93
Amhesrt	195.7	99.22	3/0	6/1	7/4.25	12.75	273	30.18
Alliance	246.9	125.1	4/0	6/1	7/4.77	14.31	345	38.05
Butte	312.8	158.6	266.8	26/7	19/3.26	16.30	437	48.76
Canton	394.5	199.9	336.4	26/7	19/3.66	18.30	551	58.91
Cairo	465.4	235.8	397.5	26/7	19/3.98	19.88	650	69.48
Darien	559.5	283.5	477	26/7	19/4.36	21.79	781	83.52
Elgin	652.4	330.6	556.5	26/7	19/4.71	23.54	911	97.42
Flint	740.8	375.3	636	26/7	37/3.59	25.16	1035	108.21
Greeley	927.2	469.8	795	26/7	37/4.02	28.14	1295	135.47