Description

AS 3607 Aluminum Alloy Conductor Steel Reinforced (AACSR) is engineered with multiple wires of aluminum alloy and galvanized steel, stranded in concentric layers. The core wires, fabricated from galvanized steel, are enveloped by external layers composed of aluminum alloy. This construction design ensures robust mechanical properties and efficient power transmission.

Application

AACSR conductors find widespread application in overhead transmission and distribution lines across medium, high, and extra high voltages. They are particularly recommended for use in crossings or areas where exceptionally high tensile strength is required to withstand challenging environmental conditions and mechanical stresses.

Construction

AACSR conductors feature a core composed of galvanized steel wires, providing high tensile strength and structural support. Surrounding the core are multiple layers of aluminum alloy wires, offering lightweight and excellent conductivity. This construction design ensures optimal performance in overhead transmission and distribution applications, making AACSR conductors a reliable choice for power infrastructure projects.

Specifications

-AS 3607 Aluminum Alloy Conductor Steel Reinforced (AACSR)

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	No. / Nominal Dia. of Wire		Cross Section Area			Approx. Overall Dia.	Approx. Weight	Nominal Breaking Load	Max. D.C. Resistance at 20°C
	Aluminum Alloy	Steel	Aluminum Alloy	Steel	Total				
	No./mm	No./mm	mm^2	mm^2	mm^2	9	171	18.3	0.7
Apple 1120	6/3.00	1/3.00	42.4	7.1	49.5	11.3	268	27.9	0.448
Banana 1120	6/3.75	1/3.75	66.3	11	77.3	14.3	402	40.7	0.279
Cherry 1120	6/4.75	7/1.60	106	14.1	14.3	17.5	677	74.4	0.203
Grape 1120	30/2.50	7/2.50	147	34.4	17.5	21	973	107	0.141
Lemon 1120	30/3.00	7/3.00	212	49.5	21	22.8	1140	126	0.12
Lychee 1120	30/3.25	7/3.25	249	58.1	22.8	24.5	1320	143	0.104
Lime 1120	30/3.50	7/3.50	289	67.3	24.5	27	1440	149	0.0784
Mango 1120	54/3.00	7/3.00	382	49.5	27	29.3	1690	174	0.0669
Orange 1120	54/3.25	7/3.25	448	58.1	29.3	31.5	1960	197	0.0578
Olive 1120	54/3.50	7/3.50	519	67.3	31.5	21.6	1025	139	0.15003