Application

ACSR/GZ conductors find extensive applications in overhead transmission and distribution lines spanning various voltage levels. Renowned for their reliability and exceptional strength-to-weight ratio, ACSR/GZ conductors are deemed suitable for spanning practical distances between timber poles, transmission towers, and other supporting structures. Over the years, they have emerged as one of the most popular choices for electrical systems globally.

Advantages

ACSR/GZ conductors offer numerous benefits due to their simple design, cost-effectiveness, and robust performance. Featuring a straightforward structure, these conductors are easy to install and maintain, reducing operational costs and downtime. Their economical construction makes them a cost-effective solution for electrical transmission projects, while their ample transmission capacity efficiently meets the demands of modern electrical systems. ACSR/GZ conductors are also suitable for challenging terrains, ensuring reliable power transmission across rivers, valleys, and other difficult landscapes. Additionally, they exhibit excellent electrical conductivity and mechanical strength, ensuring consistent performance under diverse operating conditions, thanks to their high tensile strength and durability.

Construction

Aluminum conductors, galvanized zinc steel reinforced ACSR/GZ are meticulously crafted from multiple non-insulated single wires twisted together. At the core lies a steel core, which may be single or twisted, surrounded by aluminum wires twisted around it. The steel core's primary function is to enhance the conductor's strength, while the aluminum stranded wires efficiently convey electrical energy. This robust construction ensures that ACSR/GZ conductors deliver optimal performance and longevity in overhead transmission and distribution applications.

Specifications

-NF C 34-125/EN50182 French Standard which is mostly equal to European Union Standard

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	Calculated Cross Section Area		Conductor Construction		Approx. Overall Diameter	Approx. Overall Weight	Max. D.C. Resistance at 20℃	Rated Strength
	Al-Alloy	Steel	Al-Alloy	Steel				
	mm^2	mm^2	No./mm	No./mm	mm	kg/km	Ω/km	DaN
PHLOX 37.7	28	9.42	9 x 2.0	3 x 2.0	8.32	152	1.176	2,285
PHLOX 59.7	38	21.99	12 x 2.0	7 x 2.0	10	276	0.882	4,415
PHLOX 75.5	48	27.83	12 x 2.25	7 x 2.25	11.25	348	0.697	5,585
PHLOX 94.1	51.95	42.12	15 x 2.10	19 x 1.68	12.6	481	0.642	7,795
PHLOX 116.2	57	59.69	18 x 2.0	19 x 2.00	14	624	0.59	10,490
PHLOX 147.l	72	75.54	18 x 2.25	19 x 2.25	15.75	790	0.467	13,280
PASTEL 147.1	119	27.83	30 x 2.25	7 x 2.25	15.75	547	0.279	7,910
PHLOX 181.6	88	93.27	18 x 2.50	19 x 2.50	17.5	975	0.378	16,020
PASTEL 181.6	147	34.36	30 x 2.50	7 x 2.50	17.5	672	0.226	9,630
PHLOX 228	111	116.99	18 x 2.80	19 x 2.80	19.6	1,225	0.3	20,100
PASTEL 228	185	43.1	30 x 2.80	7 x 2.80	19.6	848	0.18	12,080
PHLOX 288	140	148.07	18 x 3.15	19 x 3.15	22.05	1,550	0.238	24,990
PASTEL 288	234	54.55	30 x 3.15	7 x 3.15	22.05	1,070	0.142	15,130
PASTEL 299	206	93.27	42 x 2.50	19 x 2.50	22.5	1,300	0.162	19,850
PHLOX 376	148	227.83	24 x 2.80	37 x 2.80	25.2	2,200	0.226	36,930
PASTEL 412	325.72	85.95	32 x 3.60	19 x 2.40	26.4	1,593	0.103	22,380
PETUNIA 612	507.83	104.79	66 x 3.13	19 x 2.65	32.1	2,245	0.0657	31,260
PETUNIA 865	717.33	148.06	66 x 3.72	19 x 3.15	38.1	3,174	0.0465	43,030
POLYGONUM 1185	955.66	272.82	54 x 2.80 66 x 3.47	37 x 2.80	44.7	4,475	0.0349	63,210