



Overview

This 35kV aerial cable, designed for tree wire and spacer cable configurations, boasts a compact ACSR conductor and a robust 3-layer track-resistant XLPE construction. Manufactured and tested according to ICEA S-121-733 standards, it ensures reliable performance in overhead distribution systems.

Application

Primary and Secondary Distribution: Tailored for overhead primary and secondary distribution systems rated at 35 kV, it effectively prevents faults due to contact or space limitations, minimizing system outages and damage.

Tree Wire Installation: Installed flatly on insulators, it resembles bare or covered overhead conductors, making it ideal for tree wire power systems where self-supporting conductors like ACSR are commonly used.

Spacer Cable Systems: Employed in spacer cable power systems, it features uniform spacing in diamond configurations supported by spacer hardware, occupying minimal space and maximizing efficiency in rights-of-way or narrow corridors.

Advantage

Reliability: Compliant with industry standards, this cable guarantees reliable performance in overhead distribution systems.

Durability: The combination of ACSR conductor and XLPE insulation ensures long-term durability, even in harsh environmental conditions.

Efficiency: The track-resistant XLPE construction minimizes the risk of system outages and damage, ensuring uninterrupted power supply to consumers.

Construction

Conductor: Aluminum Conductor Steel Reinforced (ACSR), compactly stranded for optimal conductivity and strength.

Conductor Shield: Extruded semiconducting thermoplastic shield, seamlessly bonded to the conductor, ensuring efficient power transmission and protection against external factors.

Inner Covering: Consists of crosslinked polyethylene (XLPE), providing superior insulation and mechanical protection.

Outer Covering: Track-resistant crosslinked polyethylene (TK-XLPE), offering enhanced resistance to environmental stresses such as tracking and sunlight exposure. The outer layer, available in black or gray, ensures both sunlight resistance and track resistance.

Specification

- ASTM B230 – Aluminum 1350–H19 Wire for Electrical Purposes
- ASTM B232 – Concentric-Lay-Stranded Aluminum Conductors, Coated-Steel Reinforced (ACSR)
- ASTM B400 – Compact Round Concentric-Lay-Stranded Conductors
- ASTM D1248 – Polyethylene Plastics Extrusion Materials for Wire and Cable
- ICEA S-121-733 – Tree Wire and Messenger Supported Spacer Cable

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

Item #	Conductor Size	Conductor Stranding	Conductor Diameter	Conductor Shield Thickness	Covering Thickness Inner Layer	Covering Thickness Outer Layer	Overall Diameter	Conductor Weight	Total Weight	Rated Strength
	AWG or kcmil		inch	inch	inch	inch	inch	lb/FT	lb/FT	lb/FT
A4- 01ACSR61-35X	4	6/1	0.250	0.015	0.175	0.125	0.88	57.35	302	1860
A2- 01ACSR61-35X	2	6/1	0.316	0.015	0.175	0.125	0.946	91.2	364	2680
A1/0- 01ACSR61-35X	1/0	6/1	0.398	0.015	0.175	0.125	1.028	145.2	454	4380
A2/0- 01ACSR61-35X	2/0	6/1	0.447	0.015	0.175	0.125	1.077	182.8	512	5310
A3/0- 01ACSR61-35X	3/0	6/1	0.502	0.015	0.175	0.125	1.132	230.5	584	6620
A4/0- 01ACSR61-35X	4/0	6/1	0.563	0.015	0.175	0.125	1.193	290.8	670	8350
A266.8- 01ACSR181-35X	266.8	18/1	0.609	0.015	0.175	0.125	1.239	289.1	689	6880
A266.8- 01ACSR267-35X	266.8	26/7	0.642	0.015	0.175	0.125	1.272	366.9	781	11300
A336.4- 01ACSR181-35X	336.4	18/1	0.684	0.015	0.175	0.125	1.314	364.8	797	8680
A336.4- 01ACSR267-35X	336.4	26/7	0.720	0.015	0.175	0.125	1.350	462.0	910	14100
A336.4- 01ACSR307-35X	336.4	30/7	0.741	0.015	0.175	0.125	1.371	526.4	983	17300
A397.5- 01ACSR181-35X	397.5	18/1	0.743	0.015	0.175	0.125	1.373	431.0	889	9940
A397.5- 01ACSR247-35X	397.5	24/7	0.772	0.015	0.175	0.125	1.402	511.4	981	14600
A397.5- 01ACSR267-35X	397.5	26/7	0.783	0.015	0.175	0.125	1.413	546.0	1021	16300
A477- 01ACSR247-35X	477	24/7	0.846	0.015	0.175	0.125	1.476	613.9	1116	17200
A477- 01ACSR267-35X	477	26/7	0.858	0.015	0.175	0.125	1.488	655.3	1163	19500
A477- 01ACSR307-35X	477	30/7	0.883	0.015	0.175	0.125	1.513	746.4	1264	23800
A556.5- 01ACSR181-35X	556.5	18/1	0.879	0.020	0.175	0.125	1.519	603.3	1130	13700
A556.5- 01ACSR247-35X	556.5	24/7	0.914	0.020	0.175	0.125	1.554	716.1	1258	19800
A556.5- 01ACSR267-35X	556.5	26/7	0.927	0.020	0.175	0.125	1.567	765.2	1313	22600
A636- 01ACSR181-35X	636	18/1	0.940	0.020	0.175	0.125	1.580	689.9	1243	15700
A636- 01ACSR267-35X	636	26/7	0.990	0.020	0.175	0.125	1.630	874.2	1450	25200
A795- 01ACSR267-35X	795	26/7	1.108	0.020	0.175	0.125	1.748	1093.0	1720	31500
A795- 01ACSR457-35X	795	45/7	1.063	0.020	0.175	0.125	1.703	895.0	1503	22100

NOTES

1. Dimensions and weights are subject to standard manufacturing tolerances and are subject to change without notice.
2. Cables are manufactured, tested and marked to meet or exceed the requirements in ICEA S-121-733 for tree wire and messenger supported spacer cable suitable for installation and use in systems rated 35 kV.