



• Application

This cable is crucial for overhead primary and secondary distribution systems rated at 35 kV, particularly in tree wire and spacer cable configurations. It excels in scenarios where preventing faults due to contact or space limitations is paramount.

• Performance

The track-resistant 3-layer system effectively prevents short-circuits and flashovers caused by contact with trees or wildlife. It substantially reduces the risk of system outages, damage, or fires, ensuring uninterrupted power supply even in challenging environments.

• Advantage

Reliability: Engineered to meet ICEA S-121-733 standards, this cable offers unparalleled reliability in overhead distribution systems.

Durability: The use of Aluminum Conductor Steel Reinforced (ACSR) enhances strength and conductivity, ensuring long-term durability even in harsh environments.

Resilience: The track-resistant PE covering provides superior resistance to environmental stresses, ensuring prolonged service life and reduced maintenance requirements.

• Construction

This ACSR aerial cable features a meticulously engineered construction, comprising the following components:

Conductor: Aluminum Conductor Steel Reinforced (ACSR) of 1350-H19 grade, compactly stranded for optimal conductivity and strength.

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

Inner Covering: Consists of a low-, medium-, or high-density polyethylene (LDPE, MDPE, or HDPE) layer, providing insulation and mechanical protection.

Outer Covering: Comprises track-resistant medium- or high-density polyethylene (TK-MDPE or TK-HDPE), offering superior resistance to environmental stresses such as tracking and sunlight exposure. All layers are tightly bonded together, providing enhanced durability and performance.

• Specification

These cables are manufactured and tested to meet or exceed the following standards:

-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

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