



• Description

ASTM B232 15kV Aerial Cable ACSR (Aluminum Conductor Steel Reinforced) with a 3-layer Track-resistant PE is meticulously designed for a multitude of overhead primary and secondary distribution systems rated at 15 kV (nominal). This innovative cable is engineered to prevent faults caused by contact or in situations where space constraints are a concern. The robust 3-layer track-resistant system effectively mitigates short-circuits and flashovers resulting from contact with trees or wildlife, thereby enhancing system reliability and reducing the risk of outages, damage, or fires.

• Application

Tree Wire: In tree wire power systems, the cable is installed in a flat configuration, akin to bare or covered overhead conductors, with spacing on insulators. Self-supporting conductors like ACSR are commonly utilized in such installations.

Spacer Cable: For spacer cable power systems, the cable is installed with uniform spacing in a diamond configuration, supported by spacer hardware and a bare messenger such as bare aluminum clad steel, ACSR, OPGW, or galvanized steel wire. Spacer cable assemblies occupy minimal space, making them suitable for narrow corridors or rights-of-way.

• Advantage

Tree Wire Applications: Used extensively in tree wire configurations, where the cable is installed flatly with proper spacing to minimize the risk of contact-related faults.

Spacer Cable Systems: Well-suited for spacer cable installations, offering uniform spacing in diamond configurations to maximize efficiency and space utilization.

• Construction

Conductor: ACSR (concentric stranded).

Conductor Shield: The cable features an extruded semiconducting thermoplastic shield, which can be easily stripped from the conductor and is firmly bonded to the covering.

Inner and Outer Covering: The cable boasts a 2-layer covering system comprising low-, medium-, or high-density polyethylene (LDPE, MDPE, or HDPE), with the outer layer being track-resistant (TK-MDPE or TK-HDPE). All layers are intricately bonded together, ensuring maximum durability and resistance. The outer layer is available in black or gray, resistant to sunlight, and track-resistant.

• Specification

These medium aerial cable ACSR 3-layer Track-resistant PE are manufactured and tested to meet or exceed the following standards:

- ASTM B230-Aluminum 1350-H19 Wire for Electrical Purposes
- ASTM B231-Concentric-Lay-Stranded Aluminum 1350 Conductors
- ASTM B232-Concentric-Lay-Stranded Aluminum Conductors, Coated-Steel Reinforced (ACSR)
- 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	0.25	0.015	0.075	0.075	0.58	57.35	151	1860
2	6/1	0.316	0.015	0.075	0.075	0.646	91.2	200	2680
1/0	6/1	0.398	0.015	0.075	0.075	0.728	145.2	273	4380
2/0	6/1	0.447	0.015	0.075	0.075	0.777	182.8	321	5310
3/0	6/1	0.502	0.015	0.075	0.075	0.832	230.5	382	6620
4/0	6/1	0.563	0.015	0.075	0.075	0.893	290.8	456	8350
266.8	18/1	0.609	0.015	0.075	0.075	0.939	289.1	464	6880
266.8	26/7	0.642	0.015	0.075	0.075	0.972	366.9	550	11300
336.4	18/1	0.684	0.015	0.075	0.075	1.014	364.8	557	8680
336.4	26/7	0.72	0.015	0.075	0.075	1.05	462	662	14100
336.4	30/7	0.741	0.015	0.075	0.075	1.071	526.4	732	17300
397.5	18/1	0.743	0.015	0.075	0.075	1.073	431	637	9940
397.5	24/7	0.772	0.015	0.075	0.075	1.102	511.4	724	14600
397.5	26/7	0.783	0.015	0.075	0.075	1.113	546	761	16300
477	24/7	0.846	0.015	0.075	0.075	1.176	613.9	843	17200
477	26/7	0.858	0.015	0.075	0.075	1.188	655.3	887	19500
477	30/7	0.883	0.015	0.075	0.075	1.213	746.4	984	23800
556.5	18/1	0.879	0.02	0.075	0.075	1.219	603.3	848	13700
556.5	24/7	0.914	0.02	0.075	0.075	1.254	716.1	969	19800
556.5	26/7	0.927	0.02	0.075	0.075	1.267	765.2	1021	22600
636	18/1	0.94	0.02	0.075	0.075	1.28	689.9	949	15700
636	26/7	0.99	0.02	0.075	0.075	1.33	874.2	1145	25200