



• Description

ASTM B231 15kV Aerial Cable AAC (All Aluminum Conductor) with a 3-layer Track-resistant PE is designed for various applications in overhead primary and secondary distribution systems rated at 15 kV (nominal). It's particularly suited for environments where faults due to contact or space constraints are concerns. The track-resistant 3-layer system effectively mitigates short-circuits and flashovers resulting from contact with trees or wildlife, minimizing system outages, damage, or fires.

• Application

Tree Wire:

In tree wire power systems, it's installed flatly, similar to bare or covered overhead conductors, with spacing on insulators. Typically, self-supporting conductors like ACSR are used in such installations.

Spacer Cable:

In spacer cable power systems, it's installed with uniform spacing in a diamond configuration, supported by spacer hardware and a bare messenger like bare aluminum clad steel, ACSR, OPGW, or galvanized steel wire. Spacer cable assemblies occupy minimal space, requiring narrow rights-of-way.

• Construction

Conductor: AAC (1350-H19, compact stranded).

Conductor Shield: Extruded semiconducting thermoplastic shield, free stripping from the conductor and bonded to the covering.

Inner and Outer Covering: A 2-layer system comprising low-, medium-, or high-density polyethylene (LDPE, MDPE, or HDPE), where the outer layer is track-resistant (TK-MDPE or TK-HDPE). All layers are bonded together. The outer layer is black or gray, resistant to sunlight, and track-resistant.

• Specification

These medium aerial cable AAC 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 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
1/0	7	0.336	0.015	0.075	0.075	0.666	98.9	212	1990
2/0	7	0.376	0.015	0.075	0.075	0.706	124.8	247	2510
3/0	7	0.423	0.015	0.075	0.075	0.753	157.2	290	3040
4/0	7	0.475	0.015	0.075	0.075	0.805	198.4	343	3830
266.8	19	0.537	0.015	0.075	0.075	0.867	250.1	409	4970
336.4	19	0.603	0.015	0.075	0.075	0.933	315.5	489	6150
397.5	19	0.659	0.015	0.075	0.075	0.989	372.9	560	7110
477	19	0.722	0.015	0.075	0.075	1.052	446.8	648	8360
556.5	37	0.78	0.02	0.075	0.075	1.12	521.3	743	9940
636	37	0.835	0.02	0.075	0.075	1.175	596.1	831	11400
795	37	0.932	0.02	0.08	0.08	1.292	745.3	1020	13900