



• Application

The 15kV aerial cable, featuring AAAC (concentric stranding) and a 3-layer track-resistant PE, is purpose-built for overhead primary and secondary distribution systems rated at 15 kV (nominal). Its primary objective is to mitigate faults arising from contact or space constraints. The innovative 3-layer track-resistant system effectively prevents short-circuits and flashovers caused by contact with trees or wildlife. When installed correctly, this system serves as a robust safeguard against system outages, damage, or fires resulting from falling trees or branches.

Tree Wire: In tree wire power systems, this cable is installed in a flat configuration, mirroring the manner and spacing of bare or covered overhead conductors on insulators. Self-supporting conductors like ACSR are commonly employed in such setups.

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

• Construction

Conductor: AAAC (6201-T81, concentric stranded).

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

Inner and Outer Covering: A 3-layer extruded shield and covering system, featuring low-, medium-, or high-density polyethylene (LDPE, MDPE, or HDPE) as the inner layer and track-resistant medium- or high-density polyethylene (TK-MDPE or TK-HDPE) as the outer layer. All layers are meticulously bonded together. The outer layer, available in black or gray, offers resistance to sunlight and tracking.

• Specification

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

- ASTM B 398 – Aluminum-Alloy 6201-T81 and 6201-T83 Wire for Electrical Purposes
- ASTM B 399 – Concentric-Lay-Stranded Aluminum-Alloy 6201-T81 Conductors
- ASTM D 1248 – 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				Conductor Shield Thickness	Covering Thickness			Weight		Rated Strength
Size	Equivalent AAC	Stranding	Dia.		Inner Layer	Outer Layer	Overall Dia.	Conductor	Total	
AWG or kcmil	AWG or kcmil		inch	inch	inch	inch	inch	lb/1000 FT	lb/1000 FT	lb/FT
48.69	4	7	0.250	0.015	0.075	0.075	0.580	45.4	139	1760
77.47	2	7	0.316	0.015	0.075	0.075	0.646	72.24	181	2800
123.3	1/0	7	0.398	0.015	0.075	0.075	0.728	114.9	242	4270
155.4	2/0	7	0.447	0.015	0.075	0.075	0.777	144.9	284	5390
195.7	3/0	7	0.502	0.015	0.075	0.075	0.832	182.5	334	6790
246.9	4/0	7	0.563	0.015	0.075	0.075	0.893	230.2	395	8560
312.8	266.8	19	0.642	0.015	0.075	0.075	0.972	291.6	474	10500
394.5	336.4	19	0.721	0.015	0.075	0.075	1.051	367.9	569	13300
465.4	397.5	19	0.783	0.015	0.075	0.075	1.113	433.9	649	15600
559.5	477	19	0.858	0.020	0.075	0.075	1.198	521.7	762	18800
652.4	556.5	19	0.927	0.020	0.080	0.080	1.287	608.3	882	21900
740.8	636	37	0.991	0.020	0.080	0.080	1.351	690.8	980	24400

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 15 kV