

AAC Cable

Aluminum Conductor Series 1350

Prysmian
Group



Description

The AAC aluminum cables are built with series 1350 pure aluminum wires at H19 hardness twisted helically from 7 and more wires in concentric layers.

Standard Specifications

The AAC aluminum cables series 1350 are built based on the following:

- Standards: **ASTM B230 y B231.**
- Certificates: **CIDET # 03537.**

Features

- The AAC cables, of pure aluminum series 1350 are built with H19 hard wires helically twisted. The pure aluminum has: limited mechanical tension capacity, high thermal expansion coefficient and the highest conductivity among aluminum cables (62% IACS).
- The cables built with aluminum series 1350 are classified as follows:
 - **Class AA:** Bare cables utilized in power distribution networks with limited flexibility. (more rigid)

- **Class A:** Cables built to be insulated with environment capable polymers to be used in Aerial Service entrance cables where higher flexibility than class AA cables is required.

Applications

- The pure aluminum cables are designed to be installed in residential or industrial power distribution exposed systems and feed up networks. Also used on high voltage transmission lines in shorter lengths with low mechanical tension.
- Due to the aluminum high oxide reactivity the cables form a surface protective shield from environmental conditions allowing a good performance in aerial circuits.
- Due to aluminum low density the cables provide a high current capacity per metal weight, compared to copper, allowing high power transfer with less metal.
- The pure aluminum is a good conductor but is mechanically limited with high thermal expansion causing conductor reduce span lengths requiring additional care on cable sag due to high conductor temperatures.



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AAC Cable Configurations

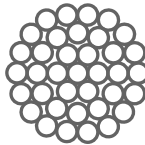
7
Wires



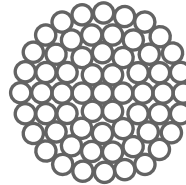
19
Wires



37
Wires



61
Wires



Technical Information

Dimensions and nominal features

The conductor operating amperage is defined by the installation condition and operating temperatures identified. See Table 1 on Ampacities for Aluminum & ACSR Overhead Electrical Conductors issued by the Aluminum Association.

Code	Gauge		Wires	Diameter	Weight	Breakage Load	DC Max. @ 20°C Resistance
	AWG / kcmil	mm ²					
Peachbell	6	13,30	7	4,66	36,6	255	2,212
Rose	4	21,15	7	5,88	58,3	400	1,391
Iris	2	33,62	7	7,42	92,7	612	0,874
Poppy	1/0	53,51	7	9,36	147,5	903	0,549
Aster	2/0	67,44	7	10,51	186	1139	0,436
Phlox	3/0	85,02	7	11,80	235	1379	0,345
Oxlip	4/0	107	7	13,25	296	1737	0,274
Daisy	266,8	135	7	14,88	374	2191	0,218
Laurel	266,8	135	19	15,05	375	2254	0,218
Tulip	336,4	171	19	16,90	472	2790	0,173
Canna	397,5	201	19	18,37	558	3225	0,146
Cosmos	477	242	19	20,12	670	3792	0,122
Syringa	477	242	37	20,19	671	3942	0,122
Dahlia	556,5	282	19	21,74	781	4423	0,104
Mistletoe	556,5	282	37	21,81	783	4509	0,104
Hyacinth	500	253	37	20,67	704	4132	0,115
Petunia	750	380	37	25,31	1055	5942	0,077

Note: The values given may vary according to the manufacturing tolerances



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