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CONSTRUCTION

- 1 **Conductor:** Bare aluminum wire, alloy 6200, H-19 temper, concentric stranded.

APPLICATION

The **BARE ALUMINUM CABLES CAL** are normally used in overhead power transmission lines. The CAL cable is a concentric stranded conductor made of one or more layers (crowns) of aluminum alloy 6201-T81 wires. It was developed to meet the need for an economical conductor for overhead application, where higher mechanical strength than that obtained with aluminum conductor AAC is required and higher corrosion resistance than that of ACSR conductor.

Alloy 6201-T81 conductors are harder and therefore have higher abrasion resistance than 1350-H19 aluminum conductors. However, the same precautions taken when handling AAC and ACSR conductors must be observed when handling CAL conductors.

The stranding combinations of CAL cables are similar to those of AAC cables.

PACKAGING

Normally supplied on wooden reels.

STANDARDS

NBR 10298 – Aluminum cables for overhead lines.

BARE ALUMINUM CABLE CAL (AAAC)



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Code	AWG or MCM	Nominal Cross Section (mm ²)	Stranding: No. of Wires x Nominal Diameter (mm)	External Diameter Nominal (mm)	Net Weight Nominal (kg/km)	Breaking Load (kN)	Current Capacity	Max Electrical Resistance at 20°C (Ohm/km)
Akron	30,58	15,49	7 x 1,68	5,04	42,7	4,91	96	2,15878
Altron	48,69	24,67	7 x 2,12	6,36	68,0	7,82	130	1,35568
Ames	77,47	39,25	7 x 2,67	8,01	108,2	12,45	175	0,85468
Azusa	123,30	62,48	7 x 3,37	10,11	172,2	19,82	237	0,53650
Anaheim	155,40	78,74	7 x 3,78	11,34	217,1	23,95	275	0,42643
Amherst	195,70	99,16	7 x 4,25	12,75	273,4	30,16	320	0,33733
Alliance	246,90	125,09	7 x 4,77	14,31	344,9	38,05	371	0,26779
Butte	312,80	158,49	19 x 3,26	16,30	436,9	48,72	433	0,21252
Canton	394,50	199,89	19 x 3,66	18,30	551,1	58,90	504	0,16758
Cairo	465,40	235,82	19 x 3,98	19,90	650,2	69,48	560	0,14243
Darien	559,50	283,50	19 x 4,36	21,80	781,6	83,54	630	0,11863
Elgin	652,40	330,57	19 x 4,71	23,55	911,4	97,41	697	0,10162
Flint	740,80	375,36	37 x 3,59	25,13	1034,9	108,24	754	0,08944