



**CABLE MANUFACTURER**  
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## Aluminum Rope



### Description :

Description	Aluminum Rope
Conductor:	Stranded Aluminum Conductor of Class 1/2 (Solid)
Insulation:	None
Insulation Color	None
Nominal Voltage:	600/1000V
Test Voltage:	4000 V
Minimal Bending Radius:	4D for D < 25 mm 6D for D > 25mm
Standard	GB/T12527-2008

### Application :

Used as bare overhead conductor for primary and secondary distribution. Design utilizes a high-strength aluminum alloy to achieve a high strength to weight ratio. Affords better sag characteristics. Aluminum alloy gives AAAC higher resistance to corrosion than ACSR.



## Technical data :

Nominal Section	Calculated Cross Section	Strands/ Dia.	Overall Diameter	Weight	Calculated Breaking Load	Max. D.C. Resistance at 20°C
mm <sup>2</sup>	mm <sup>2</sup>	mm	mm	kg/km	kN	Ω/km
10	10.02	7/1.35	4.1	27.4	1.95	
16	16.08	7/1.71	5.1	44	3.04	1.8018
25	24.94	7/2.13	6.3	67	4.5	1.1808
35	34.36	7/2.50	7.5	94	6.01	0.8332
40	40.08	7/2.7	8.1	109.4	6.8	
50	49.48	7/3.00	9	135	8.41	0.5786
63	63.18	7/3.39	10.2	172.3	10.39	0.4545
70	65.82	19/2.10	10.5	181	11.4	0.4371
95	93.27	19/2.50	12.5	256	15.22	0.3084
100	100.1	19/2.59	12.9	274.8	17	0.2877
120	117	19/2.80	14	322	20.61	0.2459
125	124.6	19/2.89	14.5	343.6	21.25	0.2302
150	147.1	37/2.25	15.2	406	24.43	0.196
160	159.6	19/3.27	16.4	439.8	26.4	0.1978
185	181.6	37/2.50	17.5	501	30.16	0.1587
240	242.54	61/2.25	20.2	670	38.2	0.1191
300	299.43	61/2.50	22.5	827	49.1	0.0965
400	400.14	61/2.89	26	1105	64	0.0722
500	499.83	61/3.23	29.1	1381	80	0.0578
630	626.2	91/2.96	32.6	1733	100.8	0.04625
800	802.1	91/3.35	36.8	2219	128	0.0361
1000	999.71	91/3.74	41.1	2766	160	0.029