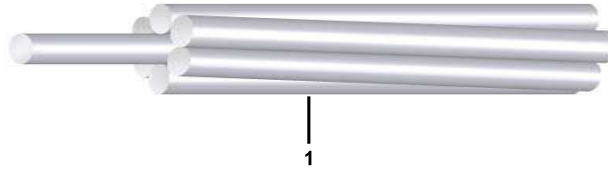


AAC (A1)

ALL ALUMINIUM STRANDED CONDUCTOR



Construction

1. Conductor : Stranded hard-drawn aluminium wires (A1)

Reference Standard :

TIS 85 - 2548, Table 3.1



Application

- For aerial power transmission and distribution

Code No.	Cross-sectional area mm ² (Approx.)	Number of wires	Diameter of wire mm (Nominal)	Overall diameter mm (Approx.)	Conductor resistance at 20°C Ω/km (Max.)	Rated tensile strength kN (Min.)	Current rating in free air at 40°C ambient A	Conductor weight kg/km (Approx.)	Standard length m/drum
10	10	7	1.35	4.05	2.8633	1.95	81	27	3,000
16	16	7	1.71	5.12	1.7896	3.04	109	44	3,000
25	25	7	2.13	6.40	1.1453	4.50	146	68	3,000
40	40	7	2.70	8.09	0.7158	6.80	197	109	2,500
63	63	7	3.39	10.20	0.4545	10.39	264	172	2,500
100	100	19	2.59	12.90	0.2877	17.00	355	275	2,500
125	125	19	2.89	14.50	0.2302	21.25	411	344	2,000
160	160	19	3.27	16.40	0.1798	26.40	482	440	2,000
200	200	19	3.66	18.30	0.1439	32.00	556	550	2,000
250	250	19	4.09	20.50	0.1151	40.00	643	687	1,500
315	315	37	3.29	23.00	0.0916	51.97	745	868	1,500
400	400	37	3.71	26.00	0.0721	64.00	870	1,102	1,000
450	450	37	3.94	27.50	0.0641	72.00	938	1,240	1,000
500	500	37	4.15	29.00	0.0577	80.00	1,003	1,378	1,000
560	560	37	4.39	30.70	0.0515	89.60	1,078	1,543	1,000
630	630	61	3.63	32.60	0.0458	100.80	1,162	1,738	1,000
710	710	61	3.85	34.60	0.0407	113.60	1,252	1,959	500
800	800	61	4.09	36.80	0.0361	128.00	1,349	2,207	500
900	900	61	4.33	39.00	0.0321	144.00	1,450	2,483	500
1000	1000	61	4.57	41.10	0.0289	160.00	1,545	2,759	500
1120	1120	91	3.96	43.50	0.0258	179.20	1,654	3,094	500
1250	1250	91	4.18	46.00	0.0231	200.00	1,765	3,453	500
1400	1400	91	4.43	48.70	0.0207	224.00	1,880	3,867	500
1500	1500	91	4.58	50.40	0.0193	240.00	1,955	4,143	500