

# AAC

## ALL ALUMINIUM STRANDED CONDUCTOR



### Construction

1. Conductor : Stranded hard-drawn aluminium wires

### Reference Standard :

TIS 85 - 2548  
( Reference to TIS 85 - 2522 )



### Application

- For aerial power transmission and distribution line.

Cross - sectional area mm <sup>2</sup> (Nominal)	Cross - sectional area mm <sup>2</sup> (Actual)	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
16	15.89	7	1.70	5.10	1.8022	2,844	110	44	4,000
25	25.18	7	2.14	6.42	1.1373	4,315	145	69	4,000
35	34.91	7	2.52	7.56	0.8202	5,737	180	96	3,000
50	50.14	7	3.02	9.06	0.5711	7,894	225	137	3,000
50	49.97	19	1.83	9.15	0.5758	8,727	225	137	3,000
70	68.98	19	2.15	10.75	0.4171	11,816	270	190	2,500
95	94.76	19	2.52	12.60	0.3036	15,543	340	261	2,500
120	121.21	19	2.85	14.25	0.2374	19,416	390	333	2,500
150	147.12	37	2.25	15.75	0.1960	25,201	455	406	2,500
185	184.54	37	2.52	17.64	0.1563	30,252	550	509	2,500
240	242.54	61	2.25	20.25	0.1191	39,371	625	670	1,500
300	304.24	61	2.52	22.68	0.0949	47,265	710	840	1,500
400	389.14	61	2.85	25.65	0.0742	59,081	855	1,075	1,000
500	506.04	61	3.25	29.25	0.0571	78,105	990	1,398	1,000
625	626.2	91	2.96	32.56	0.0462	95,060	1,140	1,735	1,000
800	802.08	91	3.35	36.85	0.0360	118,211	1,340	2,222	500
1000	999.71	91	3.74	41.14	0.0289	145,570	1,540	2,769	500