

AAC EC 1350

All Aluminium Conductor EC 1350

Standard Specification : DIN EN 50182 : 2001



Aluminium EC 1350

Technical Properties

Size	Number / Dia. of Wire	Calculated Cross Sect. Area	Approx. Overall Diameter	Approx. Weight	Calculated Breaking Load	DC Resistance at 20° C Max.	Current Carrying Capacity *	Standard Length per Reel
mm ²	No. / mm	mm ²	mm	kg/km	kN	Ohm/km	A	m
25	7 / 2.10	24.2	6.30	66	4.36	1.1787	144	2,000
35	7 / 2.50	34.4	7.50	94	6.01	0.8317	180	2,000
50	7 / 3.00	49.5	9.00	135	8.41	0.5776	225	2,000
70	19 / 2.10	65.8	10.50	181	11.85	0.4367	270	2,000
95	19 / 2.50	93.3	12.50	256	16.32	0.3081	340	2,000
120	19 / 2.80	117.0	14.00	322	19.89	0.2456	390	2,000
150	37 / 2.25	147.1	15.75	405	26.48	0.1960	455	2,000
185	37 / 2.50	181.6	17.50	500	31.78	0.1588	520	2,000
240	61 / 2.25	242.5	20.25	669	43.66	0.1193	625	2,000
300	61 / 2.50	299.4	22.50	826	52.40	0.0966	710	2,000
400	61 / 2.89	400.1	26.01	1,104	68.02	0.0723	855	2,000
450	61 / 3.07	451.5	27.63	1,246	74.50	0.0641	925	2,000
500	61 / 3.23	499.8	29.07	1,379	82.47	0.0579	990	2,000
625	91 / 2.96	626.2	32.56	1,733	106.45	0.0464	1,140	2,000
800	91 / 3.35	802.1	36.85	2,219	132.34	0.0362	1,340	2,000
1000	91 / 3.74	999.7	41.14	2,766	159.95	0.0291	1,540	1,000

* Note : Ambient temperature : 35°C
wind velocity : 0.6 m/sec

Continuous operating temperature of conductor : 80°C
Conductivity of Al : 61% IACS