

AAAC 6201

All Aluminium Alloy Conductor 6201

Standard Specification : SPLN 41-8 : 1981



Aluminium Alloy 6201

Technical Data

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
16	7 / 1.75	16.8	5.25	46	4.7	1.955	101	2,000
25	7 / 2.25	27.8	6.75	76	7.7	1.183	139	2,000
35	7 / 2.50	34.4	7.50	94	9.6	0.958	159	2,000
50	7 / 3.00	49.5	9.00	135	13.8	0.665	201	2,000
50	19 / 1.75	45.7	8.75	126	12.7	0.724	191	2,000
55	7 / 3.25	58.1	9.75	159	16.2	0.567	222	2,000
70	19 / 2.25	75.5	11.25	208	21.1	0.438	263	2,000
95	19 / 2.50	93.3	12.50	256	26.1	0.355	301	2,000
100	7 / 4.25	99.3	12.75	272	27.7	0.332	313	2,000
120	19 / 2.75	112.9	13.75	310	31.6	0.293	340	2,000
150	19 / 3.25	157.6	16.25	433	44.0	0.210	421	2,000
150	37 / 2.25	147.1	15.75	405	41.1	0.225	404	2,000
185	37 / 2.50	181.6	17.50	500	50.7	0.183	461	2,000
240	61 / 2.25	242.5	20.25	669	67	0.137	555	2,000
240	19 / 4.00	238.8	20.00	656	68	0.139	549	2,000
300	61 / 2.50	299.4	22.50	826	84	0.111	636	2,000
400	61 / 3.00	431.2	27.00	1,190	120	0.077	803	2,000
500	61 / 3.25	506.0	29.25	1,397	141	0.066	886	2,000
630	91 / 3.00	643.2	33.00	1,780	180	0.052	1,029	2,000
800	91 / 3.25	754.9	35.75	2,089	211	0.044	1,140	2,000
1000	91 / 3.75	1005.1	41.25	2,781	281	0.033	1,357	1,000

*Note : Ambient temperature : 35°C
 Wind velocity : 0.5 m/sec
 Continuous operating temperature of conductor : 80°C
 Conductivity of Al : 52.5% IACS