

ALL ALUMINUM ALLOY CONDUCTOR (AAAC)

SPLN 41-8:1981

DIMENSIONAL & MECHANICAL DATA

Cross Sectional Area		No. of Wire / Diameter	Approx. Overall Diameter	Approx. Net Weight of Conductor
Nominal Size	Actual Size			
mm ²	mm ²	pcs/mm	mm	kg/km
16	16.84	7/1.75	5.25	46
25	27.83	7/2.25	6.75	76
35	34.36	7/2.50	7.50	94
50	49.48	7/3.00	9.00	135
50	45.70	19/1.75	8.75	126
55	58.07	7/3.25	9.75	160
70	75.55	19/2.25	11.25	208
95	93.27	19/2.50	12.50	256
100	99.30	7/4.25	12.75	272
120	112.85	19/2.75	13.75	310
150	157.60	19/3.25	16.25	434
150	147.10	37/2.25	15.75	406
185	181.60	37/2.50	17.50	501
240	242.50	61/2.25	20.20	657
240	238.80	19/4.00	20.00	670
300	299.40	61/2.50	22.50	827
400	431.10	61/3.00	27.00	1,191
500	506.00	61/3.25	29.25	1,398
630	643.20	91/3.00	33.00	1,782
800	754.90	91/3.25	35.75	2,091
1000	1005.10	91/3.75	41.25	2,784

ELECTRICAL DATA

Cross Sectional Area		Max. DC Conductor Resistance at 20°C	Calculated Breaking Force	Current Carrying Capacity	Standard Quantity Per Reel
Nominal Size	Actual Size				
mm ²	mm ²	Ohm/km	N	A	m
16	16.84	1.955	4,710	105	500
25	27.83	1.183	7,750	135	500
35	34.36	0.958	9,615	170	500
50	49.48	0.665	13,830	210	500
50	45.70	0.724	12,750	210	500
55	58.07	0.567	16,235	220	500
70	75.55	0.438	21,090	255	1,000
95	93.27	0.355	26,095	320	1,000
100	99.30	0.332	27,760	325	1,000
120	112.85	0.293	31,590	365	1,000
150	157.60	0.210	44,045	425	1,000
150	147.10	0.225	41,105	425	1,000
185	181.60	0.183	50,765	490	1,000
240	242.50	0.139	66,755	585	1,000
240	238.80	0.137	67,785	585	1,000
300	299.40	0.111	83,680	670	1,000
400	431.10	0.077	120,565	810	1,000
500	506.00	0.066	141,460	930	1,000
630	643.20	0.052	179,820	1,085	1,000
800	754.90	0.044	211,060	1,255	1,000
1000	1005.10	0.033	280,960	1,450	1,000