

ALL ALUMINUM CONDUCTOR (AAC)

SPLN 41-6:1981

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	159
70	75.55	19/2.25	10.00	208
95	93.27	19/2.50	12.50	257
100	99.30	7/4.25	12.75	272
120	112.85	19/2.75	13.75	310
150	157.62	19/3.25	16.25	434
150	147.12	37/2.25	15.75	406
185	181.63	37/2.50	17.50	501
200	189.85	19/3.75	18.75	577
240	242.54	61/2.25	20.25	670
240	238.76	19/4.00	20.00	657
300	299.44	61/2.50	22.50	827
400	431.18	61/3.00	27.00	1,191
500	506.04	61/3.25	29.25	1,398
630	643.24	91/3.00	33.00	1,782
800	754.92	91/3.25	35.75	2,091
1000	1005.07	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	1.700	3,040	110	500
25	27.83	1.029	4,810	145	500
35	34.36	0.8332	5,790	180	500
50	49.48	0.5786	7,945	225	500
50	45.70	0.6295	8,190	225	500
55	58.07	0.4930	9,175	235	500
70	75.55	0.3808	10,200	270	1,000
95	93.27	0.3084	15,305	340	1,000
100	99.30	0.2883	15,110	350	1,000
120	112.85	0.2549	18,540	390	1,000
150	157.62	0.1825	24,820	455	1,000
150	147.12	0.1960	25,260	455	1,000
185	181.63	0.1587	30,510	520	1,000
200	189.85	0.1371	32,275	565	1,000
240	242.54	0.1191	39,435	625	1,000
240	238.76	0.1205	36,300	625	1,000
300	299.44	0.0965	47,580	710	1,000
400	431.18	0.0670	65,480	855	1,000
500	506.04	0.0571	75,540	990	1,000
630	643.24	0.0450	97,710	1,140	1,000
800	754.92	0.0384	112,620	1,340	1,000
1000	1005.07	0.0288	146,415	1,540	1,000