

DIN 48204

Aluminium Conductor Steel Reinforced(ACSR)



Area					Equivalent copper area	Stranding and wire diameter		Overall Diameter	Weight			Calculated breaking load	Maximum DC resistance at 20 °C
Nominal		Aluminium	Steel	Total		Aluminium	Steel		Aluminium	Steel	Total		
Aluminium	Steel												
mm ²	mm ²	mm ²	mm ²	mm ²	mm ²	mm	mm	mm	kg/km	kg/km	kg/km	kN	Ω / km
16	2.5	15.3	2.6	17.9	9.3	6/1.80	1/1.80	5.4	41.8	19.9	61.7	5.81	1.8793
25	4.0	23.8	4.0	27.8	14.5	6/2.25	1/2.25	6.8	65.4	31.0	96.4	9.02	1.2028
35	6.0	34.3	5.7	40.0	20.9	6/2.70	1/2.70	8.1	94.2	44.7	138.9	12.70	0.8353
44	32.0	44.0	31.7	75.7	26.8	14/2.00	7/2.40	11.2	121.4	248.2	369.6	45.46	0.6573
50	8.0	48.3	8.0	56.3	29.5	6/3.20	1/3.20	9.6	132.2	62.7	194.9	17.18	0.5946
50	30	51.2	29.8	81.0	31.2	12/2.33	7/2.33	11.7	141.1	233.9	375.0	44.28	0.5644
70	12	69.9	11.4	81.3	42.6	26/1.85	7/1.44	11.7	192.8	89.4	282.2	26.31	0.4130
95	15	94.4	15.3	109.7	57.6	26/2.15	7/1.67	13.6	260.3	120.1	380.4	35.17	0.3058
95	55	96.5	56.3	152.8	58.9	12/3.20	7/3.20	16.0	266.2	441.1	707.3	80.20	0.2992
105	75	105.7	75.5	181.5	64.5	14/3.10	19/2.25	17.5	291.8	594.0	885.8	106.69	0.2376
120	20	121.6	19.8	141.4	74.2	26/2.44	7/1.90	15.5	335.5	155.5	491.0	44.94	0.2374
120	70	122.0	71.3	193.3	74.4	12/3.60	7/3.60	18.0	337.0	558.0	895.0	98.16	0.2364
125	30	127.9	29.8	157.7	78.0	30/2.33	7/2.33	16.1	353.0	233.9	586.9	57.86	0.2259
150	25	148.9	24.2	173.1	90.8	26/2.70	7/2.10	17.1	410.6	190.0	600.6	54.37	0.1939
170	40	171.8	40.1	211.9	104.8	30/2.70	7/2.17	18.9	474.2	314.0	788.2	77.01	0.1682
185	30	183.8	29.8	213.6	112.1	26/3.00	7/2.33	19	507.0	233.9	740.9	66.28	0.1571

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Aluminium	Steel												
mm ²	mm ²	mm ²	mm ²	mm ²	mm ²	mm	mm	mm	kg/km	kg/km	kg/km	kN	Ω /km
210	35	209.1	34.1	243.2	128	26/3.20	7/2.49	20.3	576.6	267.1	843.7	74.94	0.1380
210	50	212.1	49.5	261.6	129	30/3.00	7/3.00	21.0	585.5	387.7	973.2	92.23	0.1363
230	30	230.9	29.8	260.7	141	24/3.50	7/2.33	21.0	636.5	233.9	870.4	73.09	0.1249
240	40	243.0	39.5	282.5	148	26/3.45	7/2.68	21.8	670.4	309.4	979.8	86.46	0.1188
265	35	263.7	34.1	297.8	161	24/3.74	7/2.49	22.4	726.9	267.1	994.0	82.94	0.1094
300	50	304.3	49.5	353.7	186	26/3.86	7/3.00	24.5	839.0	387.7	1226.7	105.09	0.0949
305	40	304.6	39.5	344.1	186	54/2.68	7/2.68	24.1	841.2	309.4	1150.6	99.30	0.0949
340	30	339.3	29.8	369.1	207	48/3.00	7/2.33	25.0	936.8	233.9	1170.7	92.56	0.0851
380	50	382.0	49.5	431.5	233	54/3.00	7/3.00	27.0	1054.3	387.7	1442.0	120.91	0.0757
385	35	386.0	34.1	420.1	235	48/3.20	7/2.49	26.7	1065.4	267.1	1332.5	194.31	0.0748
435	55	434.3	56.3	490.6	265	54/3.20	7/3.20	28.8	1199.0	441.1	1631.1	136.27	0.0666
450	40	448.7	39.5	488.2	274	48/3.45	7/2.68	28.7	1238.6	309.4	1548.0	120.19	0.0644
490	65	490.3	63.6	553.9	299	54/3.40	7/3.40	30.6	1353.7	498.0	1851.7	152.85	0.0590
550	70	550.0	71.3	621.3	336	54/3.60	7/3.60	32.4	1518.3	558.3	2076.6	167.42	0.0526
560	50	561.7	49.5	611.2	343	48/3.86	7/3.00	32.2	1550.2	387.7	1937.9	146.28	0.0514
680	85	678.6	86.0	764.6	414	54/4.00	19/2.40	36.0	1874.5	675.8	2550.3	209.99	0.0426