

## Aluminum Conductor Steel Reinforced

DIN48204, Specification for Stranded Aluminum Conductor, Steel Reinforced (ACSR)

## Physical and Electrical Properties

Code Number	Calculated Area			Stranding and wire diameter		Overall Diameter	Linear mass			Nominal breaking load	Maximum resistance at 20°C
	Al/St	Al	St	Total	Al		St	Al	St		
mm2	mm2	mm2	mm2	mm	mm	mm	kg/km	kg/km	kg/km	daN	ohm/km
16/2.5	15.3	2.5	17.8	6/1.80	1/1.80	5.4	42	20	62	595	1.878
25/4.0	23.8	4	27.8	6/2.25	1/2.25	6.8	65	32	97	920	1.2002
36/6.0	34.3	5.7	40	6/2.70	1/2.70	8.1	94	46	140	1265	0.8352
44/32.0	44	31.7	75.7	14/2.00	7/2.40	11.2	122	250	372	4500	0.6573
50/8.0	48.3	8	56.3	6/3.20	1/3.20	9.6	132	64	196	1710	0.5946
50/30	51.2	29.8	81	12/2.33	7/2.33	11.7	141	237	378	4380	0.5643
70/12	69.9	11.4	81.3	26/1.85	7/1.44	11.7	193	91	284	2680	0.413
95/15	94.4	15.3	109.7	26/2.15	7/1.67	13.6	260	123	383	3575	0.3058
95/55	96.5	56.3	152.8	12/3.20	7/3.20	16	266	446	712	7935	0.2992
105/75	105.7	75.5	181.5	14/3.10	9/2.25	17.5	292	599	891	10845	0.2735
120/20	121.06	19.8	141.4	26/2.44	7/1.90	15.5	336	158	494	4565	0.2374
120/70	122	71.3	193.3	12/3.6	7/3.60	18	337	564	901	10000	0.2364
125/30	127.9	29.8	157.7	30/2.33	7/2.33	16.3	353	238	591	5760	0.2259
150/25	148.9	24.2	173.1	26/2.70	7/2.10	17.1	411	194	605	5525	0.1939
170/40	171.8	40.1	211.9	30/2.70	7/2.70	18.9	475	319	794	7675	0.1682
185/30	183.8	29.8	213.6	26/3.00	7/2.33	19	507	239	746	6620	0.1571
210/35	209.1	34.1	243.2	26/3.20	7/2.49	20.3	577	273	850	7490	0.138
210/50	212.1	49.5	261.6	30/3.00	7/3.00	21	587	394	981	9390	0.1362
230/30	230.9	29.8	260.7	24/3.50	7/2.33	21	638	239	877	7310	0.1249
240/40	243	39.5	282.5	26/3.45	7/2.68	21.9	671	316	987	8640	0.1188
265/35	263.7	34.1	297.8	24/3.74	7/2.49	22.4	728	274	1002	8305	0.1094
300/50	304.3	49.5	353.7	26/3.86	7/3.00	24.5	840	396	1236	10700	0.09487
305/40	304.6	39.5	344.1	54/2.68	7/2.68	24.1	843	317	1160	9940	0.0949
340/30	339.3	29.8	369.1	48/3.00	7/2.33	25	938	242	1180	9290	0.08509
380/50	382	49.5	431.5	54/3.00	7/3.00	27	1056	397	1453	12310	0.08509
385/35	386	34.1	420.1	48/3.20	7/2.49	26.7	1067	277	1344	10480	0.07573

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	Al	St	Total	Al	St		Al	St	Total		
Al/St	mm <sup>2</sup>	mm <sup>2</sup>	mm <sup>2</sup>	mm	mm	mm	kg/km	kg/km	kg/km	daN	ohm/km
435/55	434.03	59.3	490.6	54/3.20	7/3.20	28.8	1203	450	1653	13645	0.07478
450/40	448.7	39.5	488.2	48/3.45	7/2.68	28.7	1241	320	1561	12075	0.06656
490/65	490.3	63.6	553.9	54/3.40	7/3.40	30.6	1356	510	1866	15310	0.06434
495/35	494.1	34.1	528.2	45/3.74	7/2.49	29.9	1363	283	1646	12180	0.05846
510/45	510.2	45.3	555.5	48/3.68	7/2.87	30.7	1413	365	1778	13665	0.05655
550/70	550	71.3	621.3	54/3.60	7/3.60	32.4	1520	572	2092	17060	0.05259
560/50	561.7	49.5	611.2	48/3.86	7/3.00	32.2	1553	401	1954	14895	0.0514
570/40	565.5	39.5	610.3	45/4.00	7/2.68	32.2	1563	325	1888	13900	0.05108
650/45	698.8	45.3	653.49	45/4.30	7/2.87	34.4	1791	372	2163	15552	0.0442
680/85	678.8	86	764.8	54/4.00	18/2.40	36	1866	702	2570	21040	0.0426
1045/45	1045.58	45.3	1090.9	72/4.30	7/2.87	43	2879	370	3249	21787	0.0277