



S.M.C

Aluminum Conductors Steel Reinforced (ACSR)

Conductors for Overhead Lines

Aluminum Conductor

Steel Reinforced (ACSR)



SIZE	Conductor area		No. and nominal diameter of wires		Approx. overall diameter	Calculated DC resistance at 20 °C (Max.)	Approx. weight of conductor		Breaking Load	Stranded packing length	Drum size	Approx. Gross weight
	Total	Aluminum	Aluminum	Steel			Aluminum	Total				
	Sqm		No./mm		mm	Ohm/Km	Kg/Km		KN	Meter ±5%		KG
16/2.5	17.9	15.3	6/1.80	1/1.80	5.4	1.8750	42	62	5.8	2000	D-7	170
25/4	27.8	23.8	6/2.25	1/2.25	6.8	1.2060	65	97	9.0	2000	D-8	245
35/6	40.0	34.3	6/2.70	1/2.70	8.1	0.8365	94	140	12.4	2000	D-9	340
44/32	75.7	44.0	14/2.00	7/2.40	11.2	0.6570	122	372	44.1	2000	D-11	845
50/8	56.3	48.3	6/3.20	1/3.20	9.6	0.5941	132	196	16.8	2000	D-10	455
50/30	81.0	51.2	12/2.33	7/2.33	11.7	0.5642	141	378	43.0	2000	D-11	855
70/12	81.3	69.9	26/1.85	7/1.44	11.7	0.4130	193	284	26.3	2000	D-11	670
95/15	109.7	94.4	26/2.15	7/1.67	13.6	0.3058	260	383	35.0	2000	D-12	880
95/55	152.8	96.5	12/3.20	7/3.20	16.0	0.2992	266	712	77.8	2000	D-14	1570
105/75	181.5	105.7	14/3.10	19/2.25	17.5	0.2735	292	981	106.4	2000	D-16	1990
120/20	141.4	121.6	26/2.44	7/1.90	15.5	0.2734	336	494	44.8	2000	D-14	1140
120/70	193.7	122.0	12/3.60	7/3.60	18.0	0.2367	337	901	98.1	2000	D-16	2010



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125/30	157.7	127.9	30/2.33	7/2.33	16.1	0.2259	353	591	56.5	2000	D-14	1330
150/25	173.1	148.9	26/2.70	7/2.10	17.1	0.1939	411	605	54.2	2000	D-16	1420
170/40	211.9	171.8	30/2.70	7/2.70	18.9	0.1682	475	794	75.3	2000	D-16	1800
185/30	213.6	183.3	26/3.00	7/2.33	19.0	0.1571	507	746	64.9	2000	D-16	1700
210/35	243.2	209.1	26/3.20	7/2.49	20.3	0.1380	577	850	73.5	2000	D-18	1490
210/50	261.6	212.1	30.30	7/2.00	21.0	0.1362	587	92.9	71.7	2000	D-18	2200
240/40	282.5	243.0	26/3.45	7/2.68	21.9	0.1188	671	987	84.8	2000	D-18	2210
265/35	297.8	263.7	24/3.74	7/2.49	22.4	0.1094	728	1002	81.5	2000	D-18	2240
300/50	353.8	304.3	26/3.86	7/3.00	24.5	0.09486	840	1236	105.0	2000	D-18	2710
305/40	344.1	304.6	54/2.68	7/2.68	24.1	0.09490	843	1160	97.5	2000	D-18	2560
340/30	369.1	339.3	48/3.00	7/2.33	25.0	0.08508	938	1180	91.0	2000	D-18	2600
380/50	431.5	382.0	54/3.00	7/3.00	27.0	0.07568	1056	1458	120.8	2000	D-19	3240
385/35	420.1	386.0	48/2.20	7/2.49	26.7	0.07494	1067	1344	102.8	2000	D-19	3010
435/55	490.06	434.3	54/3.20	7/3.20	28.8	0.06656	1203	1653	133.9	2000	D-21	3730
490/65	533.9	490.3	54/3.40	7/3.40	30.6	0.05896	1356	1866	150.2	2000	D-22	4200
550/70	621.3	550.0	54/3.60	7/3.60	32.4	0.05256	1520	2092	167.4	1000	D-18	2330
560/50	611.2	561.7	48/3.86	7/3.00	32.2	0.05140	1553	1954	146.1	1000	D-18	2190
680/85	764.6	678.8	54/4.00	19/2.40	36.0	0.04259	1868	2570	206.4	1000	D-19	2860

Conductors conform to DIN 48204