

# ACSR

## Aluminium Conductor Galvanized Steel Reinforced

Standard Specification : DIN EN 50182 : 2001



### Technical Properties

Size	Number / Diameter of Wire		Calculated Cross Section Area		Approx. Overall Diameter	Approx. Weight of Conductor	Calculated Breaking Load	DC Resistance at 20 °C Max.	Current Carrying Capacity *	Standard Length per Reel
	Al	GSW	Al	GSW						
mm <sup>2</sup>	No. / mm	No. / mm	mm <sup>2</sup>	mm <sup>2</sup>	mm	kg/km	kN	Ohm/km	A	m
35/6	6 / 2.70	1 / 2.70	34.4	5.7	8.10	139	12.37	0.8342	180	2,000
50/8	6 / 3.20	1 / 3.20	48.3	8.0	9.60	195	16.81	0.5939	220	2,000
70/12	26 / 1.85	7 / 1.44	69.9	11.4	11.72	282	26.27	0.4132	290	2,000
94/22	30 / 2.00	7 / 2.00	94.2	22.0	14.00	432	43.17	0.3067	350	2,000
95/15	26 / 2.15	7 / 1.67	94.4	15.3	13.61	380	34.93	0.3060	350	2,000
95/34	36 / 1.85	7 / 2.50	96.8	34.4	14.90	537	57.07	0.2990	360	2,000
120/20	26 / 2.44	7 / 1.90	121.6	19.8	15.46	491	44.50	0.2376	410	2,000
120/42	36 / 2.05	7 / 2.75	118.8	41.6	16.45	654	68.79	0.2435	415	2,000
125/30	30 / 2.33	7 / 2.33	127.9	29.8	16.31	587	56.41	0.2260	425	2,000
150/25	26 / 2.70	7 / 2.10	148.9	24.2	17.10	601	53.67	0.1940	470	2,000
150/53	36 / 2.30	7 / 3.10	149.6	52.8	18.50	827	84.29	0.1934	480	2,000
170/40	30 / 2.70	7 / 2.70	171.8	40.1	18.90	788	74.89	0.1683	515	2,000
185/30	26 / 3.00	7 / 2.33	183.8	29.8	18.99	741	65.27	0.1571	535	2,000
210/35	26 / 3.20	7 / 2.49	209.1	34.1	20.27	844	73.36	0.1381	590	2,000
210/50	30 / 3.00	7 / 3.00	212.1	49.5	21.00	973	92.46	0.1363	610	2,000
240/40	26 / 3.45	7 / 2.68	243.1	39.5	21.84	980	85.12	0.1188	640	2,000
240/80	36 / 2.90	19 / 2.35	237.8	82.4	23.35	1,305	134.37	0.1218	645	2,000
257/60	30 / 3.30	7 / 3.30	256.6	59.9	23.10	1,177	108.20	0.1126	665	2,000
300/50	26 / 3.86	7 / 3.00	304.3	49.5	24.44	1,227	105.09	0.0949	740	2,000
340/110	78 / 2.36	19 / 2.70	341.2	108.8	22.94	1,797	183.73	0.0848	800	2,000
380/50	54 / 3.00	7 / 3.00	381.7	49.5	27.00	1,442	121.30	0.0758	840	2,000
450/40	48 / 3.45	7 / 2.68	448.7	39.5	28.74	1,548	119.05	0.0644	920	2,000
560/50	48 / 3.86	7 / 3.00	561.7	49.5	32.16	1,938	146.28	0.0515	1,040	2,000
635/117	38 / 3.25 22 / 4.30	19 / 2.80	634.7	117.0	35.60	2,669	236.50	0.0455	1,106	2,000
680/85	54 / 4.00	19 / 2.40	678.6	86.0	36.00	2,548	206.56	0.0426	1,150	2,000
1280/183	100 / 4.05	19 / 3.50	1288.2	182.8	49.90	4,998	407.20	0.0225	1,780	1,000

\* Note : Ambient temperature : 35° C Continuous operating temperature of conductor : 80° C  
 wind velocity : 0.6 m/sec Conductivity of Al : 61% IACS