

ACSR / AS

Aluminium Conductor Aluminium Clad 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	AS	Al	AS						
mm ²	No. / mm	No. / mm	mm ²	mm ²	mm	kg/km	kN	Ohm/km	A	m
35/6	6 / 2.70	1 / 2.70	34.4	5.7	8.10	132	12.5	0.7901	187	2,000
50/8	6 / 3.20	1 / 3.20	48.3	8.0	9.60	185	16.6	0.5625	232	2,000
70/12	26 / 1.85	7 / 1.44	69.9	11.4	11.72	268	25.1	0.3916	294	2,000
94/22	30 / 2.00	7 / 2.00	94.2	22.0	14.00	406	41.1	0.2843	363	2,000
95/15	26 / 2.15	7 / 1.67	94.4	15.3	13.61	362	33.8	0.2901	357	2,000
95/34	36 / 1.85	7 / 2.50	96.8	34.4	14.90	495	55.2	0.2670	407	2,000
120/20	26 / 2.44	7 / 1.90	121.6	19.8	15.46	467	43.6	0.2252	420	2,000
120/42	36 / 2.05	7 / 2.75	118.8	41.6	16.45	604	67.1	0.2177	463	2,000
125/30	30 / 2.33	7 / 2.33	127.9	29.8	16.31	551	55.8	0.2095	442	2,000
150/25	26 / 2.70	7 / 2.10	148.9	24.2	17.10	571	53.4	0.1839	478	2,000
150/53	36 / 2.30	7 / 3.10	149.6	52.8	18.50	763	85.0	0.1728	538	2,000
170/40	30 / 2.70	7 / 2.70	171.8	40.1	18.90	739	74.9	0.1560	534	2,000
185/30	26 / 3.00	7 / 2.33	183.8	29.8	18.99	705	62.5	0.1489	547	2,000
210/35	26 / 3.20	7 / 2.49	209.1	34.1	20.27	802	71.2	0.1309	594	2,000
210/50	30 / 3.00	7 / 3.00	212.1	49.5	21.00	913	88.7	0.1263	611	2,000
240/40	26 / 3.45	7 / 2.68	243.1	39.5	21.84	932	81.9	0.1126	654	2,000
240/80	36 / 2.90	19 / 2.35	237.8	82.4	23.35	1,204	130.1	0.1090	724	2,000
257/60	30 / 3.30	7 / 3.30	256.6	59.9	23.10	1,105	105.5	0.1044	690	2,000
300/50	26 / 3.86	7 / 3.00	304.3	49.5	24.44	1,167	101.5	0.0900	755	2,000
340/110	78 / 2.36	19 / 2.70	341.2	108.8	22.94	1,665	177.8	0.0766	889	2,000
380/50	54 / 3.00	7 / 3.00	381.7	49.5	27.00	1,382	112.7	0.0726	864	2,000
435/55	54 / 3.20	7 / 3.20	434.3	56.3	28.80	1,574	137.9	0.0646	934	2,000
450/40	48 / 3.45	7 / 2.68	448.7	39.5	28.74	1,500	110.6	0.0625	946	2,000
560/50	48 / 3.86	7 / 3.00	561.7	49.5	32.16	1,878	136.5	0.0515	1,073	2,000
635/117	38 / 3.25 22 / 4.30	19 / 2.80	634.7	117.0	35.60	2,669	176.3	0.0428	1,206	2,000
680/85	54 / 4.00	19 / 2.40	678.6	86.0	36.00	2,548	192.6	0.0409	1,236	2,000
1280/183	100 / 4.05	19 / 3.50	1288.2	182.8	49.90	4,999	377.2	0.0215	1,797	1,000

* Note : Ambient temperature : 35°C Conductivity of Al : 61% IACS
 wind velocity : 0.6 m/sec Solar absorption coefficient : 0.5
 Continuous operating temperature of conductor : 80°C Emissivity with respect to black body : 0.6