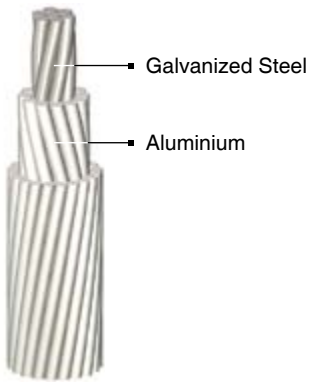
ACSR

Aluminium Conductor Galvanized Steel Reinforced

Standard Specification : SPLN 41-7 : 1981



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						
mm²	No. / mm	No. / mm	mm²	mm²	mm	kg/km	kN	Ohm/km	A	m
16/2.5	6 / 1.80	1 / 1.80	15.3	2.5	5.40	62	6.0	1.879	109	2,000
25/4	6 / 2.25	1 / 2.25	23.9	4.0	6.75	96	9.2	1.203	144	2,000
35/6	6 / 2.70	1 / 2.70	34.4	5.7	8.10	139	12.7	0.8353	182	2,000
44/32	14 / 2.00	7 / 2.40	44.0	31.7	11.20	248	43.0	0.6533	225	2,000
50/8	6 / 3.20	1 / 3.20	48.3	8.0	9.60	195	17.1	0.5946	226	2,000
50/30	12 / 2.33	7 / 2.33	51.2	29.8	11.65	375	43.8	0.5644	245	2,000
70/12	26 / 1.85	7 / 1.44	69.9	11.4	11.72	282	26.8	0.4130	287	2,000
95/15	26 / 2.15	7 / 1.67	94.4	15.3	13.61	380	35.8	0.3053	348	2,000
95/55	12 / 3.20	7 / 3.20	96.5	56.3	16.00	707	79.4	0.2992	368	2,000
105/75	14 / 3.10	19 / 2.25	105.7	75.5	17.45	594	108.5	0.2719	395	2,000
120/20	26 / 2.44	7 / 1.90	121.6	19.8	15.46	491	45.7	0.2374	409	2,000
120/70	12 / 3.60	7 / 3.60	122.1	71.3	18.00	895	100.0	0.2364	428	2,000
125/30	30 / 2.33	7 / 2.33	127.9	29.8	16.31	587	57.6	0.2259	425	2,000
150/25	26 / 2.70	7 / 2.10	148.9	24.2	17.10	601	55.3	0.1939	465	2,000
170/40	30 / 2.70	7 / 2.70	171.8	40.1	18.90	788	76.8	0.1682	514	2,000
185/30	26 / 3.00	7 / 2.33	183.8	29.8	18.99	741	66.2	0.1571	533	2,000
210/35	26 / 3.20	7 / 2.49	209.1	34.1	20.27	844	74.9	0.1380	579	2,000
210/50	30 / 3.00	7 / 3.00	212.1	49.5	21.00	973	93.9	0.1363	588	2,000
230/30	24 / 3.50	7 / 2.33	230.9	29.8	20.99	870	73.1	0.1249	614	2,000
240/40	26 / 3.45	7 / 2.68	243.1	39.5	21.84	980	86.4	0.1183	638	2,000
265/35	24 / 3.74	7 / 2.49	263.7	34.1	22.43	994	83.1	0.1094	669	2,000
300/50	26 / 3.88	7 / 3.00	307.4	49.5	24.52	1,236	107.0	0.09390	736	2,000
305/40	54 / 2.68	7 / 2.68	304.6	39.5	24.12	1,151	99.4	0.09490	733	2,000
340/30	48 / 3.00	7 / 2.33	339.3	29.8	24.99	1,169	92.9	0.08539	780	2,000
360/50	54 / 3.00	7 / 3.00	381.7	49.5	27.00	1,442	123.1	0.07573	846	2,000
385/33	48 / 3.20	7 / 2.49	386.0	34.1	26.67	1,331	104.8	0.07432	851	2,000
435/55	54 / 3.20	7 / 3.20	434.3	56.3	28.80	1,640	136.5	0.06656	918	2,000
430/40	43 / 3.45	7 / 2.68	402.0	39.5	28.74	1,417	120.8	0.07207	883	2,000

* Note :

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

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Technical Properties

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	Al	GSW	Al	GSW						
mm²	No. / mm	No. / mm	mm²	mm²	mm	kg/km	kN	Ohm/km	A	m
490/65	54 / 3.40	7 / 3.40	490.3	63.6	30.60	1,852	153.1	0.05896	991	2,000
493/35	43 / 3.74	7 / 3.48	472.4	66.6	32.88	1,824	121.8	0.06133	994	2,000
510/45	43 / 3.69	7 / 2.63	459.8	38.0	30.03	1,565	136.7	0.06300	955	2,000
550/70	54 / 3.60	7 / 3.60	549.7	71.3	32.40	2,076	170.6	0.05259	1,065	2,000
560/50	48 / 3.86	7 / 3.00	561.7	49.5	32.16	1,936	149.0	0.05158	1,072	2,000
570/40	45 / 4.82	7 / 2.68	821.1	39.5	36.96	2,572	136.2	0.03528	1,332	1,000
650/45	45 / 4.30	7 / 2.87	653.5	45.3	34.41	2,156	155.5	0.04420	1,176	2,000
680/83	64 / 4.00	19 / 3.40	804.2	172.5	41.00	3,230	206.3	0.03620	1,172	1,000
1043/45	72 / 4.30	7 / 2.43	1045.6	32.5	41.69	3,142	217.6	0.02831	1,521	1,000

* Note :

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Continuous operating temperature of conductor	: 80°C	Emissivity with respect to black body	: 0.6

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