

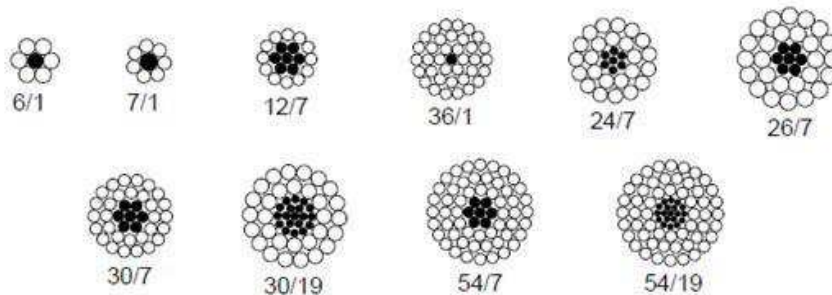


SPECIFICATIONS AND STANDARDS:

ACSR bare conductor meets or exceeds the following **IEC 61089 Standards:**

CONSTRUCTION:

Aluminum Conductors Steel Reinforced (ACSR) consists of a galvanized steel core of 1 wire, 7 wires or 19 wires surrounded by concentric layers of aluminum wire, when a conductor with a high current carrying capacity and comparatively low strength is required, special constructions are available with high aluminum content. Core wire for ACSR is available with class A, B, or C galvanizing; "aluminized" aluminum coated (AZ); or aluminum – clad (AW).



APPLICATIONS:

ACSR is used as bare overhead transmission cable and as primary and secondary distribution cable. ACSR offers optimal strength for line design. Variable steel core stranding enables desired strength to be achieved without sacrificing capacity.

This catalogue shows the most common sizes of conductor but other sizes, to any recognized standards or customer specification can also be supplied. ACSR insulated with XLPE or PVC can also be supplied as per customer's requirements.

ACSR conductors manufactured to IEC 61089

Code Number	Area			Number of Wires		Wire Dia.		Diameter		Linear Mass	A1/S1 A Conductor	A1/S2 A Conductor	A1/S3 A Conductor	Max.D.C. Resistance at 20°C
	Alum.	Steel	Total	Al.	St.	Alum.	Steel	Core	Cond.		Rated Strength	Rated Strength	Rated Strength	
	mm ²	mm ²	mm ²			mm	mm	mm	mm	kg/km	kN			Ω/km
16	16	2.67	18.7	6	1	1.84	1.84	1.64	5.53	64.6	6.08	6.45	6.83	1.7934
25	25	4.17	29.2	6	1	2.3	2.3	2.3	6.91	100.9	9.13	9.71	10.25	1.1478
40	40	6.67	46.7	6	1	2.91	2.91	2.91	8.74	161.5	14.4	15.33	16.2	0.7174
63	63	10.5	73.5	6	1	3.66	3.66	3.66	11	254.4	21.63	22.37	24.15	0.4555
100	100	16.7	117	6	1	4.61	4.61	4.61	13.8	403.8	34.33	35.5	38.33	0.2869
125	125	6.94	132	18	1	2.97	2.97	2.97	14.9	397.9	29.17	30.14	31.04	0.2304
125	125	20.4	145	26	7	2.47	1.92	5.77	15.7	503.9	45.69	48.54	51.39	0.231
160	160	8.89	169	18	1	3.36	3.36	3.36	16.8	509.3	36.18	37.42	38.67	0.18
160	160	26.1	186	26	7	2.8	2.18	6.53	17.7	644.9	57.69	61.34	64.99	0.1805
200	200	11.1	211	18	1	3.76	3.76	3.76	18.8	636.7	44.22	45	46.89	0.144
200	200	32.6	233	26	7	3.13	2.43	7.3	19.8	806.2	70.13	74.69	78.93	0.1444
250	250	24.6	275	22	7	3.8	2.11	6.34	21.6	880.6	68.72	72.16	75.6	0.1154
250	250	40.7	291	26	7	3.5	2.72	8.16	22.2	1007.7	87.67	93.37	98.66	0.1155
315	315	21.8	337	45	7	2.99	1.99	5.97	23.9	1039.3	79.03	82.08	85.13	0.0917
315	315	51.3	366	26	7	3.93	3.05	9.16	24.9	1269.7	106.83	114.02	121.2	0.0917
400	400	27.7	428	45	7	3.36	2.24	6.73	26.9	1320.1	98.36	102.23	106.1	0.0722
400	400	51.9	452	54	7	3.07	3.07	9.21	27.6	1510.3	123.04	130.3	137.56	0.0723
450	450	31.1	481	45	7	3.57	2.38	7.14	28.5	1485.2	107.47	111.82	115.87	0.0642
450	450	58.3	508	54	7	3.26	3.26	9.77	29.3	1699.1	138.42	146.58	154.75	0.0643
500	500	34.6	535	45	7	3.76	2.51	7.52	30.1	1650.2	199.41	124.25	128.74	0.0578
500	500	64.8	565	54	7	3.43	3.43	10.3	30.9	1887.9	153.8	162.87	171.94	0.0578
560	560	38.7	599	45	7	3.98	2.65	7.96	31.8	1848.2	133.74	139.16	144.19	0.0516
560	560	70.9	631	54	19	3.63	2.18	10.9	32.7	2103.4	172.59	182.52	192.45	0.0516
630	630	43.6	674	45	7	4.22	2.81	8.44	33.8	2079.2	150.45	156.55	162.21	0.0459
630	630	79.8	710	54	19	3.85	2.31	11.6	34.7	2366.3	191.77	202.94	213.31	0.0459
710	710	49.1	759	45	7	4.48	2.99	8.96	35.9	2343.2	169.56	176.43	182.81	0.0407
710	710	89.9	800	54	19	4.09	2.45	12.3	36.8	2666.8	216.12	228.71	240.41	0.0407
800	800	34.6	835	72	7	3.76	2.51	7.52	37.6	2480.2	167.41	172.25	176.74	0.0361
800	800	66.7	867	84	7	3.48	3.48	10.4	38.3	2732.7	205.33	214.67	224	0.0362
800	800	101	901	54	19	4.44	2.61	13	39.1	3004.9	243.52	257.71	270.88	0.0362
900	900	38.9	939	72	7	3.99	2.66	7.98	39.9	2790.2	188.33	193.78	198.83	0.0321
900	900	75	975	84	7	3.69	3.69	11.1	40.6	3074.2	226.5	231.75	244.5	0.0322
1000	1000	43.2	1043	72	7	4.21	2.8	8.41	42.1	3100.3	209.26	215.31	220.93	0.0289
1120	1120	47.3	1167	72	19	4.45	1.78	8.9	44.5	3464.9	234.53	241.15	247.77	0.0258



ACSR

Aluminum Conductor Steel Reinforced. Bare

1120	1120	91.2	1211	84	19	4.12	2.47	12.4	45.3	3811.5	283.17	295.94	307.79	0.0258
1250	1250	102	1352	84	19	4.35	2.61	13.1	47.9	4253.9	316.04	269.14	276.53	0.0232
1250	1250	52.8	1303	72	19	4.7	1.88	9.4	47	3867.1	261.75	330.29	343.52	0.0231