



Aluminium Conductor Steel Reinforced (ACSR)

APPLICATION

ACSR – Aluminum Conductor Steel Reinforced 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 for desired strength to be achieved without sacrificing ampacity.

CONSTRUCTION

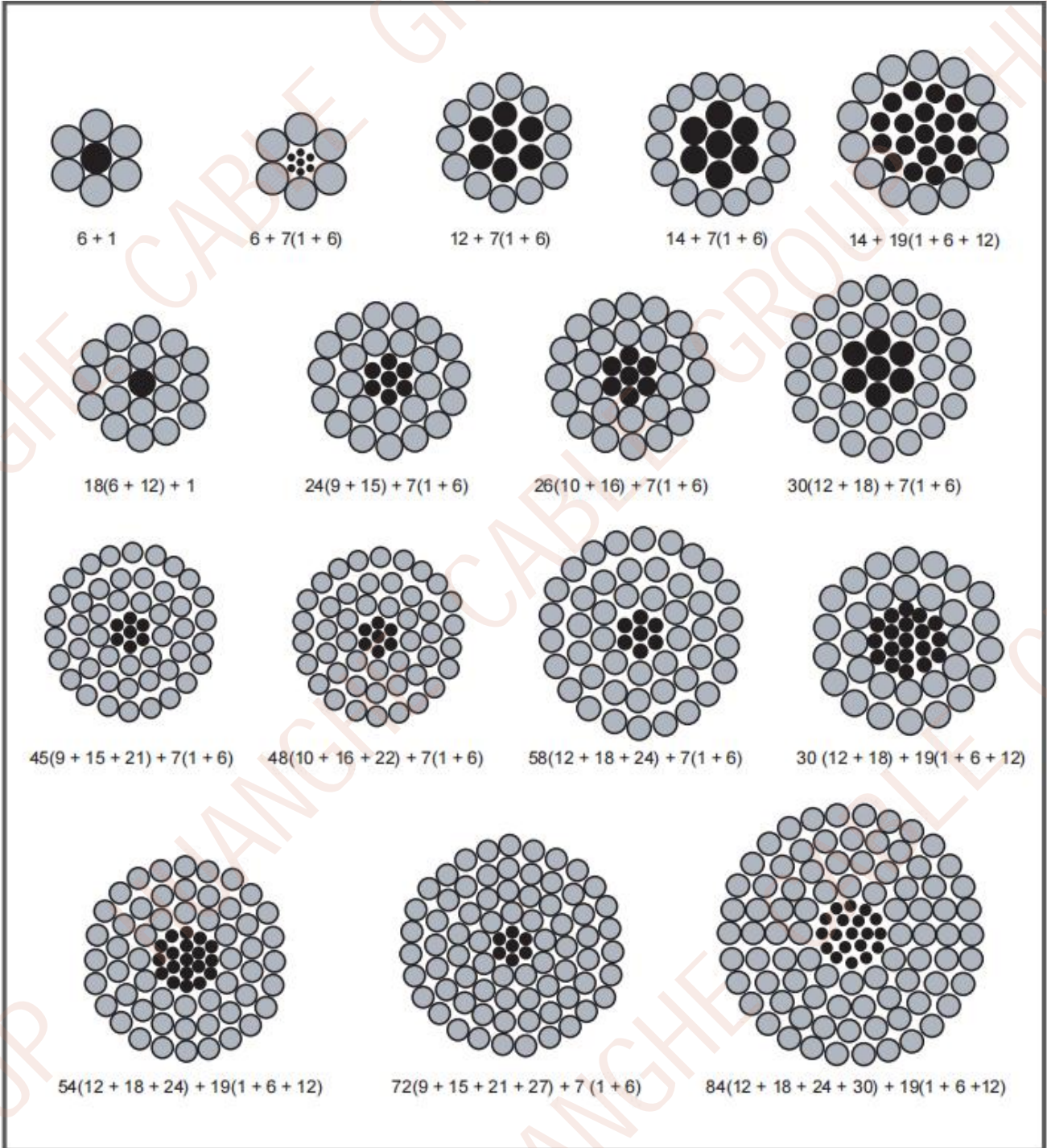
Conductor - Hard Drawn Aluminium: BS EN 60889 AL1 and Zinc coated steel wire as per BS EN 50189 with the class and grade in accordance with ST1A, ST5E and ST6C

ISO/IEC 17025 TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.

STANDARD

GB/T1179-83; IEC 61089:1991





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Nominal Cross Section AL/ST (mm ²)	Structure (no./dia)(mm)		Outer Diameter (mm ²)	D.C. resistance at 20°C (Ω/KM)	Calculated Breaking load (N)	Calculated Weight (KG/KM)	Continuous Ampacity (A)
	Aluminum	Steel					
10/2	6/1.50	1/1.50	4.50	2.706	4120	42.9	87
16/3	6/1.85	1/1.85	5.55	1.799	6130	65.2	110
25/4	6/2.32	1/1.32	6.96	1.131	9290	102.6	125
35/6	6/2.72	1/2.72	8.16	0.8230	12630	141.0	145
50/8	6/3.20	1/3.20	9.60	0.5946	16870	195.1	212
50/30	12/2.32	7/2.32	11.60	0.5692	42620	372.0	250
70/10	6/3.80	1/3.80	11.40	0.4217	23390	275.2	255
70/40	12/2.72	7/2.72	13.60	0.4141	58300	511.3	340
95/15	26/2.15	7/1.67	13.61	0.3058	35000	380.8	350
95/20	7/4.16	7/1.85	13.87	0.3019	37200	408.9	360
95/55	12/3.20	7/3.20	16.00	0.2992	78110	707.7	420
120/7	18/2.90	1/2.90	14.50	0.2422	27570	379.0	380
120/20	26/2.32	7/1.85	15.07	0.2496	41000	466.8	390
120/25	7/4.72	7/2.10	15.74	0.2345	47880	526.6	400
120/70	12/3.60	7/3.60	18.00	0.2364	98370	895.6	505
150/8	18/3.20	1/3.20	16.00	0.1989	32860	461.4	442
150/20	24/2.78	7/1.85	16.67	0.1980	46630	549.4	450
150/25	26/2.70	7/2.10	17.10	0.1939	54110	601.0	470
150/35	30/2.50	7/2.50	17.50	0.1962	65020	676.2	500
185/10	18/3.60	1/3.60	18.00	0.1572	40880	584.0	497
185/25	24/3.15	7/2.10	18.90	0.1542	59420	706.1	525
185/30	26/2.98	7/2.32	18.88	0.1592	64320	732.6	525
185/45	30/2.80	7/2.80	19.60	0.1564	80190	848.2	522
210/10	18/3.80	1/3.80	19.00	0.1411	45140	650.7	523
210/25	24/3.33	7/2.22	19.98	0.1380	65990	789.1	560
210/35	26/3.22	7/2.50	20.38	0.1363	74250	853.9	590
210/50	30/2.98	7/2.98	20.86	0.1381	90830	906.8	600
240/30	24/3.60	7/2.40	21.60	0.1181	75620	922.2	610
240/40	26/3.42	7/2.66	21.60	0.1209	83370	964.3	610
240/55	30/3.20	7/3.20	22.40	0.1189	102100	1108	640
300/15	40/3.00	7/1.67	23.01	0.09724	68060	939.8	650
300/20	45/2.93	7/1.95	23.43	0.09520	75680	1002	655
300/25	48/2.85	7/7.22	23.76	0.09433	83410	1058	690
300/40	24/3.99	7/2.66	23.94	0.09614	92220	1133	705
300/50	26/3.83	7/2.98	24.26	0.09636	103400	1210	725



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	Aluminum	Steel					
300/70	30/3.60	7/3.60	25.20	0.09463	128000	1402	740
400/20	42/3.51	7/1.95	26.91	0.07104	88850	1286	800
400/25	45/3.33	7/2.22	26.64	0.07370	95940	1295	800
400/35	48/3.22	7/2.50	26.82	0.07389	103900	1349	810
400/50	54/3.07	7/3.07	27.63	0.07232	123400	1511	815
400/65	26/4.22	7/3.44	28.00	0.07236	135200	1611	850
400/95	30/4.16	19/2.50	29.14	0.07087	171300	1860	873
500/35	45/3.75	7/2.50	30.00	0.05812	119500	1642	920
500/45	48/3.60	7/2.80	30.00	0.05912	128100	1688	920
500/65	54/3.44	7/3.44	30.96	0.05760	154000	1897	935
630/45	45/4.20	7/2.80	33.60	0.04633	148700	2060	1025
630/55	48/4.12	7/3.20	34.32	0.04514	164400	2209	1060
630/80	54/3.87	18/2.32	34.82	0.04551	192900	2388	1120
800/55	45/4.80	7/3.20	38.40	0.03547	191500	2690	1220
800/70	48/4.63	7/3.60	38.58	0.03574	207000	2791	1223
800/100	54/4.33	19/2.60	38.98	0.03635	241100	2991	1240