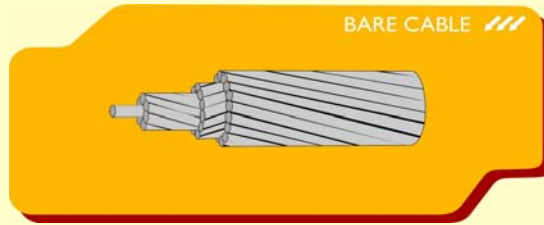


ACSR / AS

Aluminium Conductors Aluminium Clad Steel Reinforced



BARE CONDUCTOR

TECHNICAL

Specification : ASTM B - 549

Used for overhead transmission lines

° C - Ambient temperature : 35 ° C

∅ - Wind velocity : 0.6 m/sec

∞ - Continuous operating of conductor : 80 ° C

DIMENSIONAL , MECHANICAL & ELECTRICAL DATA

Nominal Aluminium AWG or MCM	AREA			Number of core & Dia. Wire		Overall Diameter approx. (mm)	Approx Weight (kg / km)	Nominal Calculated Breaking Load (KN)	Max. DC Resistance at 20°C (Ohm/km)	Current Carrying Capacity* (A)	Std. Length per reel (M +/-5%)
	Aluminium	Steel	Total	Aluminium	As Wire						
	(mm ²)	(mm ²)	(mm ²)	n / (mm)	n / (mm)						
6	13.3	2.21	15.51	6/1.68	1/1.68	5.03	52	5.05	2.0428	95	3.000
4	21.1	3.52	24.62	6/2.12	1/2.12	6.35	82	7.92	1.2874	125	
		5.37	26.47	7/1.96	1/2.61	6.54	94	10.17	1.2513	130	
2	33.6	5.61	39.22	6/2.67	1/2.67	8.02	130	12.30	0.8083	170	
		33.7	8.55	42.25	7/2.47	1/3.3	8.25	149	15.61	0.7844	
1	42.4	7.07	49.46	6/3.00	1/3.00	9.00	164	15.31	0.6403	195	
1/0	53.5	8.92	62.40	6/3.37	1/3.37	10.11	206	18.77	0.5077	225	
2/0	67.4	11.23	78.65	6/3.78	1/3.78	11.34	260	22.57	0.403	260	
3/0	85.0	14.17	99.20	6/4.25	1/4.25	12.75	327	27.99	0.3195	305	
4/0	107.2	17.87	125.1	6/4.77	1/4.77	14.31	413	34.14	0.2533	350	
266.8	135.1	7.50	142.60	18/3.09	1/3.09	15.45	423	30.04	0.2094	395	
		135.2	22.04	157.20	26/2.57	7/2.00	16.28	521	48.15	0.203	405
300	152.0	24.73	176.73	26/2.73	7/2.12	17.28	586	54.08	0.1806	435	
		170.4	9.47	179.87	18/3.47	1/3.47	17.35	533	37.60	0.166	455
336.4	170.3	27.71	198.01	26/2.89	1/2.25	18.31	656	59.80	0.1612	470	
		170.5	39.78	210.23	30/2.69	7/2.69	18.83	738	74.60	0.1578	480
397.5	201.4	11.19	212.61	18/3.77	1/3.77	18.85	630	42.75	0.1405	505	
		26.10	227.52	24/3.27	7/2.18	19.61	732	62.06	0.1378	515	
		32.76	233.96	26/3.14	7/2.44	19.88	775	69.74	0.1364	520	
477	241.7	47.00	248.42	30/2.92	7/2.92	20.44	871	87.18	0.1336	530	
		13.43	255.1	18/4.14	1/4.14	20.70	756	50.86	0.1171	570	
		31.35	273.03	24/3.58	7/2.39	21.40	878	74.51	0.1148	580	