

ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)

APPLICATION

ACSR is recommended for use as a transmission cable between the power station and substations and as primary and secondary distribution cable.

STANDARD

ASTM B-232
BDS 1037
IEC 61089

CONSTRUCTION

Conductor:
Stranded Galvanized Steel wire, Class-A to ASTM B-498
Stranded Aluminium wire, 1350-H19 to ASTM B-232



PHYSICAL DATA							TECHNICAL DATA				
Code Name	Nominal cross sectional area of conductor			Number of strands & diameter of wire		Approx. Overall diameter of conductor	Approx. weight of conductor	Minimum breaking load of conductor	Maximum D.C resistance of conductor at 20 °C	Current rating at 35 °C ambient temp.	
	Aluminium	Steel	Total	Aluminium	Steel						
	AWG or MCM	mm ²	mm ²	mm ²	no./mm	no./mm	mm	kg/km	kgf	W/km	Amp
Swan	4	21.16	3.55	24.71	6/2.12	1/2.12	6.36	85	848	1.356	105
Swallow	3	26.65	4.45	31.1	6/2.38	1/2.38	7.14	108	1040	1.076	121
Sparrow	2	33.61	5.61	39.22	6/2.67	1/2.67	8.01	136	1290	0.853	139
Robin	1	42.39	7.10	49.49	6/3.00	1/3.00	9.00	171	1620	0.6765	160
Raven	1/0	53.48	8.90	62.38	6/3.37	1/3.37	10.11	216	1990	0.5364	183
Quail	2/0	67.42	11.23	78.65	6/3.78	1/3.78	11.34	272	2400	0.4255	210
Pigeon	3/0	85.03	14.19	99.22	6/4.25	1/4.25	12.75	345	3010	0.3373	241
Penguin	4/0	107.23	17.87	125.1	6/4.77	1/4.77	14.31	433	3790	0.2676	276
Waxwing	266.8	135.16	7.48	142.64	18/3.09	1/3.09	15.45	430	3120	0.2133	319
Ostrich	300	152.00	24.77	176.77	26/2.73	1/2.12	17.28	614	5760	0.1906	346
Merlin	336.4	170.45	9.48	179.93	18/3.47	1/3.47	17.35	543	3940	0.1692	366
Chickadee	397.5	201.42	11.16	212.58	18/3.77	1/3.77	18.85	642	4510	0.1432	403
Pelican	477	241.68	13.42	255.1	18/4.14	1/4.14	20.70	774	5330	0.1193	449
Hawk	477	241.68	39.35	281.03	26/3.44	7/2.68	21.80	977	8870	0.1168	455
Hen	477	241.68	56.39	298.07	30/3.20	7/3.20	22.40	1109	10800	0.1202	457
Grosbeak	636	322.26	52.52	374.78	26/3.97	7/3.09	25.15	1302	11400	0.08989	538