

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

BS 215 part-2
BDS 1037
IEC 61089

CONSTRUCTION

Conductor:

Stranded Galvanized Steel wire to BS 4565
Stranded Aluminium wire to BS 2627



PHYSICAL DATA								TECHNICAL DATA			
Code name	Nominal Aluminium area	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.
		Al	Steel	Total	Al	Steel					
	mm ²	mm ²	mm ²	mm ²	no./mm	no./mm	mm	kg/km	kgf	W/km	Amp
SQUIRREL	20	20.98	3.50	24.48	6/2.11	1/2.11	6.33	85	806	1.37	109
GOPHER	25	26.25	4.37	30.62	6/2.36	1/2.36	7.08	106	979	1.093	126
WEASEL	30	31.61	5.27	36.88	6/2.59	1/2.59	7.77	128	1163	0.9077	134
FOX	35	36.68	6.11	42.79	6/2.79	1/2.79	8.37	149	1346	0.7827	147
FERRET	40	42.41	7.07	49.48	6/3.00	1/3.00	9.00	172	1550	0.6766	161
RABBIT	50	52.88	8.81	61.69	6/3.35	1/3.35	10.05	215	1876	0.5426	185
HORESE	70	73.36	42.80	116.16	12/2.79	7/2.79	13.95	538	6241	0.3936	268
RACCOON	75	79.22	13.20	92.42	6/4.10	1/4.10	12.30	321	2774	0.3623	231
CAT	90	95.43	15.90	111.33	6/4.50	1/4.50	13.50	387	3335	0.3008	248
HARE	100	104.98	17.50	122.48	6/4.72	1/4.72	14.16	425	3671	0.2733	273
DOG	100	104.98	13.55	118.53	6/4.72	7/1.57	14.15	395	6665	0.2733	273
TIGER	125	131.1	30.62	161.85	30/2.36	7/2.36	16.52	603	5914	0.2204	323
WOLF	150	158.06	36.88	194.94	30/2.59	7/2.59	18.13	726	7056	0.1828	355
DINGO	150	158.65	8.81	167.46	18/3.35	1/3.35	16.75	506	3640	0.1815	349
CARACAL	175	184.24	10.24	194.48	18/3.61	1/3.61	18.05	588	4181	0.1563	383
PANTHER	200	212.06	49.48	261.54	30/3.00	7/3.00	21.00	974	9402	0.1363	421
LION	225	238.27	55.60	293.87	30/3.18	7/3.18	22.26	1094	10258	0.1212	448
ELK	450	477.13	111.33	588.46	30/4.50	7/4.50	31.50	2190	20211	0.06058	679