

Aluminum Conductor Steel Reinforced

BS 215, Specification for Aluminum Conductors, Steel Reinforced (ACSR)

Physical Properties

Code name	Area				Stranding and wire diameter		Approx. overall diameter	Weight			Nominal breaking load	Nominal DC resistance at 20°C
	Nominal Alum.	Alum.	Steel	Total	Alum.	Steel		Alum.	Steel	Total		
Mole	10	10.62	1.77	12.39	6/1.50	1/1.50	4.5	29	14	43	4.14	2.076
Squirrel	20	20.94	3.49	24.43	6/2.11	1/2.11	6.33	58	27	85	7.88	1.368
Gopher	25	26.25	4.37	30.62	6/2.36	1/2.36	7.08	72	34	106	9.61	1.093
Weasel	30	31.61	5.27	36.88	6/2.59	1/2.59	7.77	87	41	128	11.45	0.9077
Fox	35	36.66	6.11	42.77	6/2.79	1/2.79	8.37	101	48	149	13.2	0.7822
Ferret	40	42.41	7.07	49.48	6/3.00	1/3.00	9	117	55	172	15.2	0.6766
Rabbit	50	52.88	8.82	61.7	6/3.35	1/3.35	10.05	145	69	214	18.35	0.5426
Mink	60	63.18	10.53	73.71	6/3.66	1/3.66	10.98	173	82	255	21.8	0.4545
Skunk	60	63.27	36.93	100.3	12/2.59	7/2.59	12.95	175	290	465	53	0.4567
Beaver	70	74.82	12.47	87.29	6/3.99	1/3.99	11.97	205	97	302	25.7	0.3825
Horse	70	73.37	42.8	116.17	12/2.79	7/2.79	13.95	203	335	538	61.2	0.3936
Raccoon	75	79.2	13.2	92.4	6/4.10	1/4.10	12.3	217	103	320	27.2	0.3622
Otter	80	83.88	13.98	97.86	6/4.22	1/4.22	12.66	230	109	339	28.8	0.3419
Cat	90	95.4	15.9	111.3	6/4.50	1/4.50	13.5	262	124	386	32.7	0.3007
Hare	100	105	17.5	122.5	6/4.72	1/4.72	14.16	288	137	425	36	0.2733
Dog	100	105	13.5	118.5	6/4.72	7/1.57	14.15	288	106	394	32.7	0.2733
Hyena	100	105.8	20.44	126.2	7/4.39	7/1.93	14.57	290	160	450	40.9	0.2712
Leopard	125	131.3	16.8	148.1	6/5.28	7/1.75	15.81	360	132	492	40.7	0.2184
Coyote	125	132.1	20.1	152.2	26/2.54	7/1.91	15.89	365	157	522	46.4	0.2187
Cougar	125	130.3	7.25	137.5	18/3.05	1/3.05	15.25	362	57	419	29.8	0.2189
Tiger	125	131.1	30.6	161.7	30/2.36	7/2.36	16.52	362	240	602	58	0.2202
Wolf	150	158	36.9	194.9	30/2.59	7/2.59	18.13	437	289	726	69.2	0.1828
Dingo	150	158.7	8.8	167.5	18/3.35	1/3.35	16.75	437	69	506	35.7	0.1815
Lynx	175	183.4	42.8	226.2	30/2.79	7/2.79	19.53	507	335	842	79.8	0.1576
Caracal	175	184.2	10.3	194.5	18/3.61	1/3.61	18.05	507	80	587	41.1	0.1563
Panther	200	212	49.5	261.5	30/3.00	7/3.00	21	586	388	974	92.25	0.1363
Lion	225	238.5	55.6	294.2	30/3.18	7/3.18	22.26	659	436	1095	109.6	0.1212
Bear	250	264	61.6	325.6	30/3.35	7/3.35	23.45	730	483	1213	111.1	0.1093

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Goat	300	324.3	75.7	400	30/3.71	7/3.71	25.97	896	593	1489	135.7	0.0891
Sheep	350	374.1	87.3	461.4	30/3.99	7/3.99	27.93	1034	684	1718	155.9	0.07704
Antelope	350	373.1	48.4	421.5	54/2.97	7/2.97	26.73	1032	379	1411	118.2	0.07727
Bison	350	381.8	49.5	431.3	54/3.00	7/3.00	27	1056	388	1444	120.9	0.07573
Jaguar	200	210.6	11.7	222.3	18/3.86	1/3.86	19.3	580	91	671	46.55	0.1367
Deer	400	429.3	100.2	529.5	30/4.27	7/4.27	29.89	1186	785	1971	178.5	0.06726
Zebra	400	428.9	55.6	484.5	54/3.18	7/3.18	28.62	1186	435	1621	131.9	0.0674
Elk	450	477	111.3	588.3	30/4.50	7/4.50	31.5	1318	872	2190	198.2	0.06056
Camel	450	475.2	61.6	536.8	54/3.35	7/3.35	30.15	1314	483	1797	145.7	0.06073
Moose	500	528.7	68.5	597.2	54/3.53	7/3.53	31.77	1462	537	1999	161.1	0.0547