

ACSR (aluminium conductors steel reinforced)

Steel/Al

CABLE STANDARDS

BS EN 50182



APPLICATION

Used as bare overhead transmission cable and as primary and secondary distribution cable. ACSR offers optimal strength for line design. Variable steel core stranding enables desired strength to be achieved without sacrificing ampacity.

CONSTRUCTION

Conductor

Class 2 stranded aluminum conductor

protective conductor

Steel (Galvanized)

CHARACTERISTICS

Voltage Rating (U0.U) (Um)

Test Voltage

Temperature Rating

-20°C to +90°C

Minimum Bending Radius

15 x Overall Diameter

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Technical Specifications

code	Construction (stranding and wire diameter)		NOMINAL CROSS SECTIONAL AREA			Max DC Conductor Resistance at 20°C Ω.km	Rated Strength kN Approx	OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
	number/mm		AL mm ²	Steel mm ²	Total mm ²				
MOLE	6X1.50	1X1.50	10.6	1.77	12.4	2.7027	4.14	4.50	42.8
SQUIRREL	6X2.11	1X2.11	21.0	3.50	24.5	1.3659	7.87	6.33	84.7
GOPHER	6X2.36	1X2.36	26.2	4.37	30.6	1.0919	9.58	7.08	106.0
WEASEL	6X2.59	1X2.59	31.6	5.27	36.9	0.9065	11.36	7.77	127.6
FOX	6X2.79	1X2.79	36.7	6.11	42.8	0.7812	13.21	8.37	148.1
FERRET	6X3.00	1X3.00	42.4	7.07	49.5	0.6757	15.27	9.00	171.2
RABBIT	6X3.35	1X3.35	52.9	8.81	61.7	0.5419	18.42	10.1	213.5
MINK	6X3.66	1X3.66	63.1	10.5	73.6	0.4540	21.67	11.00	254.9
SKUNK	12X2.59	7X2.59	63.2	36.9	100.1	0.4568	52.79	13.00	463.0
BEAVER	6X3.99	1X3.99	75.0	12.5	87.5	0.3820	25.76	12.00	302.9
HORSE	12X2.79	7X2.79	73.4	42.8	116.2	0.3936	61.26	14.00	537.3
RACCOON	6X4.09	1X4.09	78.8	13.1	92.0	0.3635	27.06	12.3	318.3
OTTER	6X4.22	1X4.22	83.9	14.0	97.9	0.3415	28.81	12.7	338.8
CAT	6X4.50	1X4.50	95.4	15.9	111.3	0.3003	32.76	13.5	385.3
DOG	6X4.72	7X1.57	105.0	13.6	118.5	0.2733	32.65	14.2	394.0
HYENA	7X4.39	1X1.93	20.5	105.9	126.4	0.2708	40.91	14.60	450.9
COYOTE	26X2.54	7X1.91	131.7	20.1	151.8	0.2192	45.86	15.9	520.7
COUGAR	18X3.05	1X3.05	131.5	7.31	138.8	0.2188	29.74	15.3	418.8
TIGER	30X2.36	7X2.36	131.2	30.6	161.9	0.2202	57.87	16.5	602.2
WOLF	30X2.59	7X2.59	158.1	36.9	194.9	0.1829	68.91	18.1	725.3
DINGO	18X3.35	1X3.35	158.7	8.81	167.5	0.1814	35.87	16.8	505.2
LYNX	30X2.79	7X2.79	183.4	42.8	226.2	0.1576	79.97	19.5	841.6
CARACAL	18X3.61	1X3.61	184.2	10.2	194.5	0.1562	40.74	18.1	586.7
JAGUAR	18X3.86	1X3.86	210.6	11.7	222.3	0.1366	46.57	19.3	670.8
LION	30X3.18	7X3.18	238.3	55.6	293.9	0.1213	100.47	22.3	1093.4
GOAT	30X3.71	7X3.71	324.3	75.7	400.0	0.0891	135.13	26.00	1488.2
SHEEP	30X3.99	7X3.99	375.1	87.5	462.6	0.0771	156.30	27.9	1721.3
ANTELOPE	54X2.97	7X2.97	374.1	48.5	422.6	0.0773	118.88	26.7	1413.8
BISON	54X3.00	7X3.00	381.7	49.5	431.2	0.0758	121.30	27.6	1442.5
DEER	30X4.27	7X4.27	429.6	100.2	529.8	0.0673	179.00	29.9	1971.4
ZEBRA	54X3.18	7X3.18	428.9	55.6	484.5	0.0674	131.92	28.6	1620.8
ELK	30X4.50	7X4.50	477.1	111.3	588.5	0.0606	198.80	31.5	2189.5
CAMEL	54X3.35	7X3.35	476.0	61.7	537.7	0.0608	146.40	30.2	1798.8
MOUSE	54X3.53	7X3.53	528.5	68.5	597.0	0.0547	159.92	31.8	1997.3

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ode	Construction (stranding and wire diameter) number/mm		NOMINAL CROSS SECTIONAL AREA			Max DC Conductor Resistance at 20°C Ω.km	Final modulus of elasticity N/mm2	Current carrying capacity A	Rated Strength kN Approx	OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
	AL	Steel	AL mm ²	Steel mm ²	Total mm ²						
16/2.5	6X1.80	1X1.80	15.3	2.54	17.8	1.8769	81000	105	5.80	5.40	61.6
25/4	6X2.25	1X2.25	23.9	3.98	27.8	1.2012	81000	140	8.95	6.75	96.3
25/6	6X2.70	1X2.70	34.4	57.3	40.1	0.8342	81000	170	12.37	8.10	138.7
44/32	14X2.0	7X2.40	44.0	31.7	75.6	0.6574	110000	-	44.24	11.2	369.3
50/8	6X3.20	1X3.20	48.3	8.04	56.3	0.5939	81000	210	16.81	9.60	194.8
50/30	12X2.33	7X2.33	51.2	29.8	81.0	0.5644	107000	-	42.98	11.7	347.7
70/12	26X1.85	7X1.44	69.9	11.4	81.3	0.4132	77000	290	26.27	11.7	282.2
95/15	26X2.15	7X1.67	99.4	15.3	109.7	0.3060	77000	350	34.93	13.6	380.6
95/55	12X3.20	7X3.20	96.5	56.3	152.8	0.2992	107000	-	77.85	16.0	706.8
105/75	14X3.10	19.2.25	105.7	75.5	181.2	0.2742	110000	-	105.82	17.5	885.3
120/20	26X2.44	7X1.90	121.6	19.8	141.4	0.2376	77000	410	44.50	15.5	491.0
120/70	12X3.60	7X3.60	122.1	71.3	193.4	0.2364	107000	-	97.92	18.0	894.5
125/30	30X2.33	7X2.33	127.9	29.8	157.8	0.2260	82000	425	56.41	16.3	578.0
150/25	26X2.70	7X2.10	148.9	24.2	173.1	0.1940	77000	470	53.67	17.1	600.8
170/40	30X2.70	7X2.70	171.8	40.1	211.8	0.1683	82000	520	74.89	18.9	788.2
185/30	26X3.00	7X2.33	183.8	29.8	213.6	0.1571	77000	535	65.27	19.0	741.0
210/35	26X3.20	7X2.49	209.1	34.1	243.2	0.1381	77000	590	72.36	20.3	844.1
210/50	30X3.00	7X3.00	212.1	49.5	261.8	0.1363	82000	610	92.46	21.0	973.1
230/30	24X3.50	7X2.33	230.9	29.8	260.8	0.1250	74000	630	72.13	21.0	870.9
240/40	26X3.45	7X2.68	243.1	39.5	282.5	0.1888	77000	645	85.12	21.8	980.1
265/35	24X3.74	7X2.49	263.7	34.1	297.7	0.1095	74000	680	81.04	22.4	994.4
300/50	26X3.86	7X3.00	304.3	49.5	353.7	0.0949	77000	740	105.09	24.4	1227.3
305/40	54X2.68	7X2.68	304.6	39.5	344.1	0.0949	70000	740	96.80	24.1	1151.2
340/30	48X3.00	7X2.33	339.3	29.8	369.1	0.0852	62000	790	91.71	25.0	1171.2
380/50	54X3.00	7X3.00	381.7	49.5	431.2	0.0758	70000	840	121.30	27.0	1442.5
385/35	48X3.20	7X2.49	386.0	34.1	420.1	0.0749	62000	850	102.56	26.7	1333.6
435/55	54X3.20	7X3.20	434.3	56.3	490.6	0.0666	70000	900	133.59	28.8	1641.3
450/40	48X3.45	4X2.68	448.7	39.5	488.2	0.0644	62000	920	119.05	28.7	1549.1
490/65	54X3.40	7X3.40	490.3	63.6	553.8	0.0590	70000	960	150.81	30.6	1852.9
495/35	45X3.74	7X2.49	494.4	34.1	528.4	0.0584	61000	985	117.96	29.9	1632.6
510/45	48X3.68	7X2.87	510.5	45.3	555.8	0.0566	62000	995	133.31	30.7	1765.3
550/70	54X3.60	7X3.60	549.7	71.3	620.9	0.0526	70000	1020	166.32	32.4	2077.2
560/50	48X3.86	7X3.00	561.7	49.5	611.2	0.0515	62000	1040	146.28	32.2	1939.5
570/40	45X4.02	7X2.68	571.2	39.5	610.6	0.0506	61000	1050	136.40	32.2	1887.1
650/45	45X4.30	7X2.87	653.5	45.3	698.8	0.0442	61000	1120	156.18	34.4	2159.9
680/85	54X4.00	19X2.40	678.6	86.0	764.5	0.0426	68000	1150	206.56	36.0	2549.7
1045/45	72X4.30	7X2.87	1045.6	45.3	1090.9	0.0277	60000	1580	218.92	43.0	3248.2