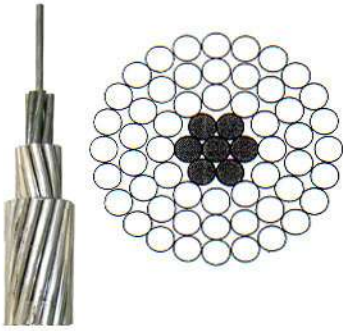


ALUMINIUM CONDUCTOR STEEL REINFORCED

ACSR



SPECIFICATION : -SPLN 41-7
DIN 48204

CONSTRUCTION & CHARACTERISTICS

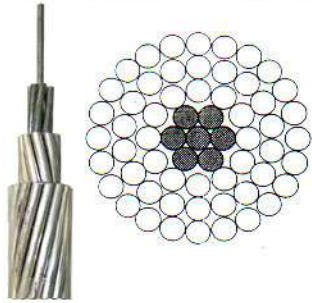
Conductor Size	Number / Diameter of Wire		Calculated Sectional area		Approx. Overall Diameter	Approx. Weight of Conductor	Maximum DC Resistance at 20°C	Maximum Current Carrying Capacity *	Calculated Breaking Load	Standard Length per Drum
	Steel	Aluminium	Steel	Aluminium						
mm ²	n / mm		mm ²		mm	kg/km	ohm/km	A	kN	m
16 / 2.5	1 / 1.80	6 / 1.80	2.5	15.3	5.4	62	1.8793	110	5.81	2,000
25 / 4	1 / 2.25	6 / 2.25	4.0	23.9	6.8	98	1.2028	145	9.02	2,000
35 / 6	1 / 2.70	6 / 2.70	5.7	34.4	8.1	141	0.8353	180	12.70	2,000
44 / 32	7 / 2.40	14 / 2.00	31.7	44.0	11.2	374	0.6573	240	45.46	2,000
50 / 8	1 / 3.20	6 / 3.20	8.0	48.3	9.6	197	0.5946	225	17.18	2,000
50 / 30	7 / 2.33	12 / 2.33	29.8	51.2	11.7	379	0.5644	270	44.28	2,000
70 / 12	7 / 1.44	26 / 1.85	11.4	69.9	11.7	285	0.4130	310	26.31	2,000
95 / 15	7 / 1.67	26 / 2.25	15.3	103.4	14.0	409	0.3058	390	35.17	2,000
95 / 55	7 / 3.20	12 / 3.20	56.3	96.5	16.0	715	0.2992	395	80.20	2,000
105 / 75	19 / 2.25	14 / 3.10	75.5	105.7	17.5	894	0.2736	425	106.69	2,000
120 / 20	7 / 1.90	26 / 2.44	19.8	121.6	15.5	495	0.2374	440	44.94	2,000
120 / 70	7 / 3.60	12 / 3.60	71.3	122.1	18.0	906	0.2364	460	98.16	2,000
125 / 30	7 / 2.33	30 / 2.33	29.8	127.9	16.3	592	0.2259	460	57.86	2,000
150 / 25	7 / 2.10	26 / 2.70	24.2	148.9	17.1	606	0.1939	500	54.37	2,000
170 / 40	7 / 2.70	30 / 2.70	40.1	171.8	18.9	795	0.1682	535	77.01	2,000
185 / 30	7 / 2.33	26 / 3.00	29.8	183.8	19.0	747	0.1571	570	66.28	2,000
210 / 35	7 / 2.49	26 / 3.20	34.1	209.1	20.3	851	0.1380	620	74.94	2,000
210 / 50	7 / 3.00	30 / 3.00	49.5	212.1	21.0	982	0.1363	635	92.25	2,000
230 / 30	7 / 2.33	24 / 3.50	29.8	230.9	21.0	878	0.1249	660	73.09	2,000
240 / 40	7 / 2.68	26 / 3.45	39.5	243.1	21.8	989	0.1188	685	86.46	2,000
265 / 35	7 / 2.49	24 / 3.74	34.1	263.7	22.4	1,003	0.1094	720	82.94	2,000
300 / 50	7 / 3.00	26 / 3.86	49.5	304.3	24.4	1,247	0.0949	795	105.09	2,000
305 / 40	7 / 2.68	54 / 2.68	39.5	304.6	24.1	1,159	0.0949	790	99.30	2,000
340 / 30	7 / 2.33	48 / 3.00	29.8	339.3	25.0	1,178	0.0851	810	92.56	2,000
380 / 50	7 / 3.00	54 / 3.00	49.5	381.7	27.0	1,452	0.0757	865	120.91	1,000
385 / 35	7 / 2.49	48 / 3.20	34.1	386.0	26.7	1,341	0.0748	880	104.31	1,000
435 / 55	7 / 3.20	54 / 3.20	56.3	434.3	28.8	1,682	0.0666	980	136.27	1,000
450 / 40	7 / 2.68	48 / 3.45	39.5	448.7	28.7	1,557	0.0644	965	120.19	1,000
490 / 65	7 / 3.40	54 / 3.40	63.6	490.3	30.6	1,863	0.0590	1060	152.85	1,000
495 / 35	7 / 2.49	45 / 3.74	34.1	494.4	29.9	1,641	0.0584	1055	120.31	1,000
510 / 70	7 / 2.87	48 / 3.68	45.3	510.5	30.7	1,776	0.0566	1040	134.33	1,000
550 / 70	7 / 3.60	54 / 3.60	71.3	549.7	32.4	2,090	0.0526	1135	167.42	1,000
560 / 50	7 / 3.00	48 / 3.86	49.5	561.7	32.2	1,951	0.0514	1110	146.28	1,000
650 / 45	7 / 2.87	45 / 4.30	45.3	653.5	34.4	2,172	0.0442	1265	155.52	1,000
680 / 85	19 / 2.40	54 / 4.00	86.0	678.6	36.0	2,565	0.0426	1290	209.99	1,000
1045 / 45	7 / 2.87	72 / 4.30	45.3	1045.6	43.0	3,262	0.0277	1365	217.87	500

Note : * Ambient temperature : 35 °C
 * Wind velocity : 0.5 m/sec.
 * Continuous operating temperature of conductor : 90 °C

ALUMINIUM CONDUCTOR STEEL REINFORCED

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SPECIFICATION : ASTM B 232



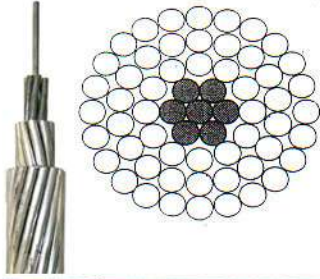
CONSTRUCTION & CHARACTERISTICS

Code Name	Conductor Size	Number / Diameter of Wire		Calculated Sectional area		Approx. Overall Diameter	Approx. Weight of Conductor	Maximum DC Resistance at 20°C	Maximum Current Carrying Capacity *	Calculated Breaking Load	Standard Length per Drum
		Steel	Aluminium	Steel	Aluminium						
-	CM or AWG	n / mm		mm ²		mm	kg/km	ohm/km	A	kg	m
SCOTER	636,000	7 / 3.698	30 / 3.698	75.2	322.2	25.9	1,490	0.08984	825	13,800	2,000
EGRET	636,000	19 / 2.220	30 / 3.698	73.5	322.2	25.9	1,479	0.08984	825	14,300	2,000
SWIFT	636,000	1 / 3.376	36 / 3.376	9.0	322.3	23.6	965	0.08916	820	6,240	2,000
FLAMINGO	666,600	7 / 2.822	24 / 4.234	43.8	337.9	25.4	1,285	0.08546	845	10,800	2,000
GANNET	666,600	7 / 3.162	26 / 4.067	55.0	337.8	25.8	1,373	0.08551	840	12,000	2,000
STILT	715,500	7 / 2.924	24 / 4.387	47.0	362.8	26.3	1,379	0.07961	875	11,600	2,000
STARLING	715,500	7 / 3.277	26 / 4.214	59.0	362.6	26.7	1,474	0.07963	880	12,900	2,000
REDWING	715,500	19 / 2.352	30 / 3.922	82.6	362.4	27.4	1,662	0.07987	890	15,700	1,000
CUCKOO	795,000	7 / 3.081	24 / 4.623	52.2	402.9	27.7	1,532	0.07166	935	12,700	1,000
DRAKE	795,000	7 / 3.454	26 / 4.442	65.6	402.9	28.1	1,638	0.07167	940	14,300	1,000
COOT	795,000	1 / 3.774	36 / 3.774	11.2	402.7	26.4	1,206	0.07134	890	7,610	2,000
TERN	795,000	7 / 2.250	45 / 3.376	27.8	402.8	27.0	1,138	0.07168	930	10,000	1,000
CONDOR	795,000	7 / 3.081	54 / 3.081	52.2	402.6	27.7	1,530	0.07173	935	12,800	1,000
MALLARD	795,000	19 / 2.482	30 / 4.135	91.9	402.9	29.0	1,849	0.07186	950	17,400	1,000
RUDDY	900,000	7 / 2.395	45 / 3.592	31.5	456.0	28.7	1,515	0.06332	1005	11,100	1,000
CANARY	900,000	7 / 3.279	54 / 3.279	59.1	456.0	29.5	1,733	0.06332	1015	14,500	1,000
CATBIRD	954,000	1 / 4.135	36 / 4.135	13.4	483.4	28.9	1,447	0.05944	1020	8,980	1,000
RAIL	954,000	7 / 2.466	45 / 3.698	33.4	483.3	29.6	1,605	0.05975	1045	11,700	1,000
CARDINAL	954,000	7 / 3.376	54 / 3.376	62.7	483.4	30.4	1,837	0.05973	1050	15,400	1,000
TANAGER	1,033,500	1 / 4.303	36 / 4.303	14.5	523.5	30.1	1,567	0.05488	1075	9,710	1,000
ORTOLAN	1,033,500	7 / 2.565	45 / 3.848	36.2	523.3	30.8	1,738	0.05517	1100	12,600	1,000
CURLEW	1,033,500	7 / 3.513	54 / 3.513	67.8	523.4	31.6	1,989	0.05518	1110	16,600	1,000
BLUEJAY	1,113,000	7 / 2.664	45 / 3.995	39.0	564.1	32.0	1,874	0.05118	1155	13,600	1,000
FINCH	1,113,000	19 / 2.189	54 / 3.647	71.5	564.1	32.8	2,132	0.05144	1160	17,800	1,000
BUNTING	1,192,500	7 / 2.756	45 / 4.135	41.8	604.3	33.1	2,007	0.04779	1195	14,500	1,000
GRACKLE	1,192,500	19 / 2.266	54 / 3.774	76.6	604.1	34.0	2,284	0.04803	1205	19,000	1,000
SKYLARK	1,272,000	1 / 4.775	36 / 4.775	17.9	644.7	33.4	1,930	0.04457	1250	12,000	1,000
BITTERN	1,272,000	7 / 2.847	45 / 4.270	44.6	644.4	34.2	2,140	0.04480	1305	15,500	1,000
PHEASANT	1,272,000	19 / 2.339	54 / 3.899	81.6	644.7	35.1	2,436	0.04501	1260	19,800	1,000
DIPPER	1,351,500	7 / 2.934	45 / 4.402	47.3	684.9	35.2	2,274	0.04216	1300	16,600	1,000
MARTIN	1,351,500	19 / 2.410	54 / 4.018	86.7	684.7	36.2	2,587	0.04238	1310	21,000	1,000
BOBOLINK	1,431,000	7 / 3.020	45 / 4.529	50.1	724.9	36.2	2,408	0.03794	1340	17,400	1,000
PLOVER	1,431,000	19 / 2.482	54 / 4.135	91.9	725.2	37.2	2,741	0.04002	1350	22,300	1,000
NUTHATCH	1,510,500	7 / 3.101	45 / 4.653	52.9	765.2	37.2	2,541	0.03774	1380	18,200	1,000
PARROT	1,510,500	19 / 2.548	54 / 4.247	96.9	765.0	38.2	2,891	0.03794	1390	22,500	500
LAPWING	1,590,000	7 / 3.183	45 / 4.775	55.7	805.8	38.2	2,676	0.03583	1430	19,200	500
FALCON	1,590,000	19 / 2.616	54 / 4.359	102.1	805.9	34.0	3,046	0.03601	1440	24,700	500
CHUKAR	1,780,000	19 / 2.220	84 / 3.698	73.5	902.2	40.7	3,083	0.03216	1485	23,200	500
BLUEBIRD	2,156,000	19 / 2.441	84 / 4.069	88.9	1092.3	44.8	3,732	0.02656	1665	27,300	500
KIWI	2,167,000	7 / 2.939	72 / 4.407	47.5	1098.3	44.1	4,067	0.02642	1655	22,600	500
THRASHER	2,312,000	19 / 2.068	76 / 4.430	63.8	1171.4	45.8	3,752	0.02477	1730	25,700	500

Note : * Ambient temperature : 35 °C
 * Wind velocity : 0.5 m/sec.
 * Continuous operating temperature of conductor : 90 °C

ALUMINIUM CONDUCTOR STEEL REINFORCED

ACSR



SPECIFICATION : BS 215 : Part 2

CONSTRUCTION & CHARACTERISTICS

Code Name	Conductor Size	Number / Diameter of Wire		Calculated Sectional area		Approx. Overall Diameter	Approx. Weight of Conductor	Maximum DC Resistance at 20°C	Maximum Current Carrying Capacity*	Calculated Breaking Load	Standard Length per Drum
		Steel	Aluminium	Steel	Aluminium						
-	mm ²	n / mm		mm ²		mm	kg/km	ohm/km	A	kN	m
GOPHER	25	1 / 2.36	6 / 2.36	4.4	26.2	7.1	108	1.093	150	9.61	3,000
WEASEL	30	1 / 2.59	6 / 2.59	5.3	31.6	7.8	130	0.9077	170	11.45	3,000
FERRET	40	1 / 3.00	6 / 3.00	7.1	42.4	9.0	174	0.6766	210	15.20	3,000
RABBIT	50	1 / 3.35	6 / 3.35	8.8	52.9	10.1	217	0.5426	240	18.35	3,000
HORSE	70	7 / 2.79	12 / 2.79	42.8	73.4	14.0	544	0.3936	330	61.20	2,000
DOG	100	7 / 1.57	6 / 4.72	13.6	105.0	14.2	400	0.2733	370	32.70	2,000
WOLF	150	7 / 2.59	30 / 2.59	36.9	158.1	18.1	732	0.1828	525	69.20	2,000
DINGO	150	1 / 3.35	18 / 3.35	8.8	158.7	16.8	510	0.1815	515	35.70	2,000
LYNX	175	7 / 2.79	30 / 2.79	42.8	183.4	19.5	849	0.1576	575	79.80	2,000
CARACAL	175	1 / 3.61	18 / 3.61	10.2	184.2	18.1	593	0.1563	565	41.10	2,000
PANTHER	200	7 / 3.00	30 / 3.00	49.5	212.1	21.0	982	0.1363	630	92.25	2,000
JAGUAR	200	1 / 3.86	18 / 3.86	11.7	210.6	19.3	678	0.1367	615	46.55	2,000
ZEBRA	400	7 / 3.18	54 / 3.18	55.6	428.9	28.6	1,631	0.06740	980	131.90	1,700

SEMISTANDARD SIZE

Code Name	Conductor Size	Number / Diameter of Wire		Calculated Sectional area		Approx. Overall Diameter	Approx. Weight of Conductor	Maximum DC Resistance at 20°C	Maximum Current Carrying	Calculated Breaking Load Capacity*	Standard Length per Drum
		Steel	Aluminium	Steel	Aluminium						
-	mm ²	n / mm		mm ²		mm	kg/km	ohm/km	A	kN	m
FOX	35	1 / 2.79	6 / 2.79	6.1	36.7	8.4	150	0.7822	190	13.15	3,000
MINK	60	1 / 3.66	6 / 3.66	10.5	63.1	11.0	259	0.4546	270	21.80	3,000
SKUNK	60	7 / 2.59	12 / 2.59	36.9	63.2	13.0	469	0.4568	300	52.90	2,000
BEAVER	75	1 / 3.99	6 / 3.99	12.5	75.0	12.0	307	0.3826	305	25.75	2,000
RACCOON	75	1 / 4.09	6 / 4.09	13.1	78.8	12.3	323	0.3639	310	102.50	2,000
OTTER	80	1 / 4.22	6 / 4.22	14.0	83.9	12.7	344	0.3418	320	28.80	2,000
CAT	95	1 / 4.50	6 / 4.50	15.9	95.4	13.5	391	0.3008	350	32.65	2,000
HARE	105	1 / 4.72	6 / 4.72	17.5	105.0	14.2	267	0.2733	370	35.95	2,000
HYENA	105	7 / 1.93	7 / 4.39	20.5	106.0	14.6	163	0.2707	350	41.00	2,000
LEOPARD	130	7 / 1.75	6 / 5.28	16.8	131.4	15.8	499	0.2196	430	40.75	2,000
TIGER	130	7 / 2.36	30 / 2.36	30.6	131.2	16.5	608	0.2202	460	58.00	2,000
COYOTE	130	7 / 1.91	26 / 2.54	20.1	131.7	15.9	525	0.2191	460	46.35	2,000
LION	235	7 / 3.18	30 / 3.18	55.6	238.3	22.3	1,103	0.1213	680	100.40	2,000
BEAR	260	7 / 3.35	30 / 3.35	61.7	264.4	23.5	1,224	0.1093	730	111.20	2,000
BATANG	300	7 / 1.68	18 / 4.78	15.5	323.0	24.2	1,020	0.0892	810	69.60	2,000
GOAT	320	7 / 3.71	30 / 3.71	75.7	324.3	26.0	1,502	0.08912	830	135.80	2,000
ANTELOPE	370	7 / 2.79	54 / 2.79	42.8	330.1	25.1	1,255	0.07728	825	118.50	2,000
SHEEP	375	7 / 3.99	30 / 3.99	87.5	375.1	27.9	1,373	0.07705	910	156.30	1,700
BISON	380	7 / 3.00	54 / 3.00	49.5	381.7	27.0	1,452	0.07574	905	120.90	1,700
DEER	425	7 / 4.27	30 / 4.27	100.2	429.6	29.9	1,989	0.06727	990	178.60	1,000
CAMEL	475	7 / 3.35	54 / 3.35	61.7	476.0	30.2	1,810	0.06074	1040	145.90	1,000
ELK	475	7 / 4.50	30 / 4.50	111.3	477.1	31.5	2,209	0.06059	1050	198.30	1,000
MOOSE	525	7 / 3.53	54 / 3.53	68.5	528.5	31.8	2,010	0.05470	1110	161.00	1,000

Note : * Ambient temperature : 35 °C
 * Wind velocity : 0.5 m/sec.
 * Continuous operating temperature of conductor : 90 °C