



ACSR Aluminum Conductor Steel Reinforced

CABLE STRUCTURE:

Steel core and Aluminium strand

CODE DESIGNATION:

ACSR

STANDARD:

ASTM B232 EN 51082 IEC 61089

APPLICATION:

Aluminum conductor steel reinforced is mainly used in some power industry and transmission lines (high-voltage lines) of the industry, its structure is the use of a single layer of aluminum wire through a number of special processes to be precessed. if the length of the route is very limited, and there's no way to separate a lot of routes, then we can use this product, and can play a line to act as a means of many lines

CERTIFICATES:

We hold SAA, CE, TUV and CCC certifications for our product categories. Additionally, we possess other authoritative certifications recognized in various countries and regions. For further details on our certification portfolio, please do not hesitate to contact us.





ACSR Aluminum Conductor Steel Reinforced

Specifications

ASTM B232													
Code Name	Nominal AWG or MCM	Total Area			Stranding and Wire Diameter		Approx Overall Diameter	Weight			Nominal Breaking Load	Max.D.C. Resistance at 20°C	Standard Length
		Al.	St.	Total	Al.	St.		Al.	St.	Total			
		mm ²	mm ²	mm ²	mm	mm	mm	kg/km	kg/km	kg/km	kN	Ω/km	m ± 5%
Turkey	6	13.29	2.19	15.48	6/1.68	1/1.68	5.04	37	17	54	5.24	2.1586	3000
Swan	4	21.16	3.55	24.71	3/2.12	1/2.12	6.36	58	27	85	8.32	1.3557	3000
Swanate	4	21.16	5.35	26.51	7/1.96	1/2.61	6.53	58	42	100	10.53	1.3557	3000
Sparrow	2	33.61	5.61	39.22	6/2.67	1/2.67	8.01	92	44	136	12.7	0.8535	3000
Sparate	2	33.61	8.52	42.13	7/2.47	1/3.30	8.24	92	67	159	16.11	0.8535	2500
Robin	1	42.39	7.1	49.49	6/3.00	1/3.00	9.00	116	55	171	15.85	0.6767	2500
Raven	1/00	53.48	8.9	62.38	6/3.37	1/3.37	10.11	147	69	216	19.32	0.5364	2000
Quail	2/00	67.42	11.23	78.65	6/3.78	1/3.78	11.34	185	88	273	23.62	0.4255	3000
Pigeon	3/00	85.03	14.19	99.22	6/4.25	1/4.25	12.75	233	110	343	29.41	0.3373	2500
Penguin	4/00	107.23	17.87	125.1	6/4.77	1/4.77	14.31	294	139	433	37.06	0.2675	2000
Waxwing	266.8	135.16	7.48	142.64	18/3.09	1/3.09	15.45	373	58	431	30.27	0.2133	3500
Partridge	266.8	135.16	22	157.16	26/2.57	7/2.00	16.28	374	172	546	50.29	0.2143	2500
Ostrich	300	152	24.71	176.71	26/2.73	7/2.12	17.28	421	193	614	56.52	0.1906	3000
Merlin	336.4	170.45	9.48	179.93	18/3.47	1/3.47	17.50	470	74	544	38.23	0.1691	2000
Linnet	336.4	170.45	27.81	198.23	26/2.89	7/2.25	18.31	472	217	689	62.71	0.1699	2500
Oriole	336.4	170.45	39.81	210.26	30/2.69	7/2.69	18.83	473	311	784	77.27	0.1704	3000
Chickadee	397.5	201.42	11.16	212.58	18/3.77	1/3.77	18.85	555	87	642	43.99	0.1431	2500
Brant	397.5	201.42	26.13	227.55	24/3.27	7/2.18	19.61	558	204	762	64.69	0.1438	2000
Ibis	397.5	201.42	32.77	234.19	26/3.14	7/2.44	19.88	558	256	814	72.11	0.1438	2500
Lark	397.5	201.42	46.97	248.39	30/2.92	7/2.92	20.44	560	367	927	88.69	0.1442	2500
Pelican	477	241.68	13.42	255.1	18/4.14	1/4.14	20.70	666	105	771	52.16	0.1193	2000
Flicker	477	241.68	31.29	272.97	24/3.58	7/2.39	21.49	670	245	915	76.66	0.1199	3000
Hawk	477	241.68	39.42	281.1	26/3.44	7/2.67	21.79	670	308	978	86.65	0.1199	2000
Hen	477	241.68	56.39	298.07	30/3.20	7/3.20	22.40	671	441	1112	105.34	0.1201	2000
Osprey	556.5	282	15.68	297.68	18/4.47	1/4.47	22.35	777	122	899	60.88	0.1022	2000
Parakeet	556.5	282	36.58	318.58	24/3.87	7/2.58	23.22	781	286	1067	88.22	0.1027	3000
Dove	556.5	282	45.94	327.94	26/3.72	7/2.89	23.55	781	359	1140	101.03	0.1027	3000
Eagle	556.5	282	65.81	347.81	30/3.46	7/3.46	24.21	783	515	1298	122.92	0.1030	3500
Peacock	605	306.58	39.74	346.32	24/4.03	7/2.69	24.20	849	311	1160	95.88	0.0945	3000
Squab	605	306.58	49.94	356.52	26/3.87	7/3.01	24.51	850	390	1240	108.14	0.0945	3000
Wood Duck	605	306.58	71.55	378.13	30/3.61	7/3.61	25.25	851	560	1411	128.84	0.0947	3000
Teal	605	306.58	69.87	376.45	30/3.61	19/2.16	25.24	851	548	1399	133.59	0.0947	2000
Kingbird	636	322.26	17.9	340.16	18/4.78	1/4.78	23.88	889	139	1028	69.55	0.08945	2000
Rook	636	322.26	41.81	364.07	24/4.14	7/2.76	24.84	893	326	1219	100.83	0.08989	2500
Grosbeak	636	322.26	52.45	374.71	26/3.97	7/3.09	25.15	893	409	1302	111.8	0.08989	3000
Scoter	636	322.26	75.22	397.48	30/3.70	7/3.70	25.88	895	589	1484	135.44	0.09011	3000
Egret	636	322.26	73.55	395.81	30/3.70	19/2.22	25.90	894	576	1470	140.3	0.09011	3000
Swift	636	322.26	8.96	331.22	36/3.38	1/3.38	23.62	888	70	958	60.52	0.08945	2000
Flamingo	666.6	337.34	43.81	381.55	24/4.23	7/2.82	25.40	936	342	1278	105.66	0.08577	2500
Gannet	666.6	337.34	55.03	392.77	26/4.07	7/3.16	25.76	936	429	1365	117.33	0.08577	2500
Stilt	715.5	362.58	46.97	409.55	24/4.39	7/2.92	26.31	1005	367	1372	113.35	0.07989	2000
Starling	715.5	362.58	59.03	421.61	26/4.21	7/3.28	26.68	1005	461	1466	125.91	0.07989	2500



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Specifications

ASTM B232

Code Name	Nominal AWG or MCM	Total Area			Stranding and Wire Diameter		Approx Overall Diameter	Weight			Nominal Breaking Load	Max.D.C. Resistance at 20°C	Standard Length
		Al.	St.	Total	Al.	St.		Al.	St.	Total			
		mm ²	mm ²	mm ²	mm	mm	mm	kg/km	kg/km	kg/km	kN	Ω/km	m ± 5 %
Redwing	715.5	362.58	82.58	445.16	30/3.92	19/2.35	27.43	1006	647	1653	153.94	0.08009	2000
Tern	795	402.84	27.87	430.71	45/3.38	7/2.25	27.03	1116	217	1333	97.37	0.07191	2500
Condor	795	402.84	52.19	455.03	54/3.08	7/3.08	27.72	1116	408	1524	124.45	0.07191	3000
Cuckoo	795	402.84	52.19	455.03	24/4.62	7/3.08	27.74	1116	408	1524	123.94	0.07191	2000
Drake	795	402.84	65.61	468.35	26/4.44	7/3.45	28.11	1116	512	1628	139.92	0.07191	2000
Coot	795	402.84	11.16	414	36/3.77	1/3.77	26.41	1110	88	1198	74.34	0.07156	3000
Mallard	795	402.84	91.87	494.71	30/4.14	19/2.48	28.96	1119	719	1838	171.18	0.07208	2500
Ruddy	900	456.06	34.54	487.6	45/3.59	7/2.40	28.73	1263	247	1510	108.96	0.06351	2000
Canary	900	456.06	59.1	515.16	54/3.28	7/3.28	29.52	1263	461	1724	140.95	0.06351	2000
Rail	954	483.42	33.42	516.84	45/3.70	7/2.47	29.61	1339	262	1601	115.63	0.05992	2000
Catbird	954	483.42	13.42	496.84	36/4.14	1/4.14	28.95	1333	105	1438	87.66	0.05962	2500
Cardinal	954	483.42	62.65	546.07	54/3.38	7/3.38	30.42	1339	490	1829	149.36	0.05992	2500
Ortlan	1033.5	523.68	36.19	559.87	45/3.85	7/2.57	30.81	1451	283	1734	123.1	0.05531	2000
Tanger	1033.5	523.68	14.51	538.2	36/4.30	1/4.30	30.12	1443	113	1556	94.93	0.05504	2000
Curlew	1033.5	523.68	67.87	591.55	54/3.52	7/3.52	31.68	1451	530	1981	161.8	0.05531	2000
Bluejay	1113	563.93	39.03	602.96	45/4.00	7/2.66	31.98	1563	385	1868	132.63	0.05136	2500
Finch	1113	563.93	71.55	635.48	54/3.65	19/2.19	32.85	1570	580	2130	174.41	0.05161	2000
Bunting	1192.5	604.26	41.55	645.81	45/4.14	7/2.76	33.12	1674	327	2001	141.79	0.04793	2500
Grackle	1192.5	604.26	76.58	680.84	54/3.77	19/2.27	33.97	1682	600	2282	186.38	0.04817	2000
Bittern	1272	644.51	44.52	689.03	45/4.27	7/2.85	34.17	1785	349	2134	151.48	0.04494	2500
Pheasant	1272	644.51	81.68	726.19	54/3.90	19/2.34	35.1	1795	638	2433	194	0.04516	2000
Skylark	1272	644.51	17.87	662.38	36/4.78	1/4.78	33.42	1777	140	1917	115.85	0.04472	2000
Dipper	1351.5	684.84	47.1	731.94	45/4.40	7/2.92	35.16	1898	368	2266	160.7	0.04230	2000
Martin	1351.5	684.84	86.71	771.55	54/4.02	19/2.41	36.17	1906	679	2585	206.05	0.04250	2000
Bobolink	1431	725.1	50.32	775.42	45/4.53	7/3.02	36.24	2009	393	2402	170.71	0.03994	2000
Plover	1431	725.1	91.87	816.97	54/4.14	19/2.48	37.24	2019	719	2738	218.24	0.04013	2500
Nuthatch	1510.5	765.35	52.9	818.25	45/4.65	7/3.10	37.2	2120	414	2534	177.89	0.03784	2000
Parrot	1510.5	765.35	86.84	862.19	54/4.25	19/2.55	38.25	2131	759	2890	230.2	0.03802	2000
Lapwing	1590	805.68	55.48	861.16	45/4.77	7/3.18	38.16	2232	435	2667	187.02	0.03595	2000
Falcon	1590	805.68	102.13	907.81	54/4.36	19/2.62	39.26	2243	799	3042	242.55	0.03613	2000



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Specifications

EN 51082

Code Name	Area			Stranding and Wire Diameter		Approx Overall Diameter	Mass per unit length	Rated strength	Max DC Resistance at 20°C
	Al. mm ²	St. mm ²	Total mm ²	Al. mm	St. mm				
Mole	10.6	1.77	12.4	6/1.50	1/1.50	4.50	42.8	4.14	2.7027
Squirrel	21.0	3.50	24.5	6/2.11	1/2.11	6.33	84.7	7.87	1.3659
Gopher	26.2	4.37	30.6	6/2.36	1/2.36	7.08	106.0	9.58	1.0919
Weasel	31.6	5.27	36.9	6/2.59	1/2.59	7.77	127.6	11.38	0.9065
Fox	36.7	6.11	42.8	6/2.79	1/2.79	8.37	148.1	13.21	0.7812
Ferrett	42.4	7.07	49.5	6/3.00	1/3.00	9.00	171.2	15.27	0.6757
Rabbit	52.9	8.81	61.7	6/3.35	1/3.35	10.1	213.5	18.42	0.5419
Mink	63.1	10.50	73.6	6/3.66	1/3.66	11.0	254.9	21.67	0.4540
Skunk	63.2	36.90	100.1	12/2.59	7/2.59	13.0	463.0	52.79	0.4568
Beaver	75.0	12.50	87.5	6/3.99	1/3.99	12.0	302.9	25.76	0.3820
Horse	73.4	42.80	116.2	12/2.79	7/2.79	14.0	537.3	61.26	0.3936
Racoon	78.8	13.10	92.0	6/4.09	1/4.09	12.3	318.3	27.06	0.3635
Otter	83.9	14.00	97.9	6/4.22	1/4.22	12.7	338.8	28.81	0.3415
Cat	95.4	15.90	111.3	6/4.50	1/4.50	13.5	385.3	32.76	0.3003
Hare	105.0	17.50	122.5	6/4.72	1/4.72	14.2	423.8	36.04	0.2730
Dog	105.0	13.60	118.5	6/4.72	7/1.57	14.2	394.0	32.65	0.2733
Coyote	131.7	20.10	151.8	26/2.54	7/1.91	15.9	520.7	45.86	0.2192
Cougar	131.5	7.31	138.8	18/3.05	1/3.05	15.3	418.8	29.74	0.2188
Tiger	131.2	30.60	161.9	30/2.36	7/2.36	16.5	602.2	57.87	0.2202
Wolf	158.1	36.90	194.9	30/2.59	7/2.59	18.1	725.3	68.91	0.1829
Dingo	158.7	8.81	167.5	18/3.35	1/3.35	16.8	505.2	35.87	0.1814
Lynx	183.4	42.80	226.2	30/2.79	7/2.79	19.5	841.6	79.97	0.1576
Caracal	184.2	10.20	194.5	18/3.61	1/3.61	18.1	586.7	40.74	0.1562
Panther	212.1	49.50	261.5	30/3.00	7/3.00	21.0	973.1	92.46	0.1363
Lion	210.6	11.70	222.3	18/3.86	1/3.86	19.3	670.8	46.57	0.1366
Bear	238.3	55.60	293.9	30/3.18	7/3.18	22.3	1093.4	100.47	0.1213
Goat	264.4	61.70	326.1	30/3.35	7/3.35	23.5	1213.4	111.50	0.1093
Sheep	324.3	75.70	400.0	30/3.71	7/3.71	26.0	1488.2	135.13	0.0891
Antelope	375.1	87.50	462.6	30/3.99	7/3.99	27.9	1721.3	156.30	0.0771
Bison	374.1	48.50	422.6	54/2.97	7/2.97	26.7	1413.8	118.88	0.0773
Jaguar	381.7	49.50	431.2	54/3.00	7/3.00	27.0	1442.5	121.30	0.0758
Deer	429.6	100.20	529.8	30/4.27	7/4.27	29.9	1971.4	179.00	0.0673
Zebra	428.9	55.60	484.5	54/3.18	7/3.18	28.6	1620.8	131.92	0.0674
Elk	477.1	111.30	588.5	30/4.50	7/4.50	31.5	2189.5	198.80	0.0606
Camel	476.0	61.70	537.7	54/3.35	7/3.35	30.2	1798.8	146.40	0.0608
Moose	528.5	68.50	597.0	54/3.53	7/3.53	31.8	1997.3	159.92	0.0547



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Specifications

IEC61089

Code Number	Area			Stranding and Wire Diameter		Diameter		Linear Mass	Rated strength	Max DC Resistance at 20°C
	Al.	St.	Total	Al.	St.	Core	Cond.			
	mm ²	mm ²	mm ²	mm	mm	mm	mm	kg/km	kN	Ω/km
16	16	2.67	18.7	6/1.84	1/1.84	1.84	5.53	64.6	6.08	1.7934
25	25	4.17	29.2	6/2.30	1/2.30	2.3	6.91	100.9	9.13	1.1478
40	40	6.67	46.7	6/2.91	1/2.91	2.91	8.74	161.5	14.4	0.7174
63	63	10.5	73.5	6/3.66	1/3.66	3.66	11.0	254.4	21.63	0.4555
100	100	16.7	117	6/4.61	1/4.61	4.61	13.8	403.8	34.33	0.2869
125	125	6.94	132	18/2.97	1/2.97	2.97	14.9	397.9	29.17	0.2304
125	125	20.4	145	26/2.47	7/1.92	5.77	15.7	503.9	45.69	0.2310
160	160	8.89	169	18/3.36	1/3.36	3.36	16.8	509.3	36.18	0.1800
160	160	26.1	186	26/2.80	7/2.18	6.53	17.7	644.9	57.69	0.1805
200	200	11.1	211	18/3.76	1/3.76	3.76	18.8	636.7	44.22	0.1440
200	200	32.6	233	26/3.13	7/2.43	7.3	19.8	806.2	70.13	0.1444
250	250	24.6	275	22/3.80	7/2.11	6.34	21.6	880.6	68.72	0.1154
250	250	40.7	291	26/3.50	7/2.72	8.16	22.2	1007.7	87.67	0.1155
315	315	21.8	37	45/2.99	7/1.99	5.97	23.9	1039.3	79.03	0.0917
315	315	51.3	366	26/3.93	7/3.05	9.16	24.9	1269.7	106.83	0.0917
400	400	27.7	428	45/3.36	7/2.24	6.73	26.9	1320.1	98.36	0.0722
400	400	51.9	452	54/3.07	7/3.07	9.21	27.6	1510.3	123.04	0.0723
450	450	31.1	481	45/3.57	7/2.38	7.14	28.5	1485.2	107.47	0.0642
450	450	58.3	508	54/3.26	7/3.26	9.77	29.3	1699.1	138.42	0.0643
500	500	34.6	535	45/3.76	7/2.51	7.52	30.1	1652.2	199.41	0.0578
500	500	64.8	565	54/3.43	7/3.43	10.3	30.9	1887.9	153.8	0.0578
560	560	38.7	599	45/3.98	7/2.65	7.96	31.8	1848.2	133.74	0.0516
560	560	70.9	631	54/3.63	19/2.18	10.9	32.7	2103.4	172.59	0.0516
630	630	43.6	674	45/4.22	7/2.81	8.44	33.8	2079.2	150.45	0.0459
630	630	79.8	710	54/3.85	19/2.31	11.6	34.7	2366.3	191.77	0.0459
710	710	49.1	759	45/4.48	7/2.99	8.96	35.9	2343.2	169.56	0.0407
710	710	89.9	800	54/4.09	19/2.45	12.3	36.8	2666.8	216.12	0.0407
800	800	34.6	835	72/3.76	7/2.51	7.52	37.6	2480.2	167.41	0.0361
800	800	66.7	867	84/3.48	7/3.48	10.4	38.3	2732.7	205.33	0.0362
800	800	101	901	54/4.44	19/2.61	13	39.1	3004.9	243.52	0.0362
900	900	38.9	939	72/3.99	7/2.66	7.98	39.9	2790.2	188.33	0.0321
900	900	75	975	84/3.69	7/3.69	11.1	40.6	3074.2	226.5	0.0322
1000	1000	43.2	1043	72/4.21	7/2.80	8.41	42.1	3100.3	209.26	0.0289
1120	1120	47.3	1167	72/4.45	19/1.78	8.9	44.5	3464.9	234.53	0.0258
1120	1120	91.2	1211	84/4.12	19/2.47	12.4	45.3	3811.5	283.17	0.0258
1250	1250	102	1352	84/4.35	19/2.61	13.1	47.9	4253.9	316.04	0.0232
1250	1250	52.8	1303	72/4.70	19/1.88	9.4	47.0	3867.1	261.75	0.0231