



• Application

ACSR aluminum conductors steel reinforced are essential components in electrical infrastructure, serving as bare overhead transmission cables and primary and secondary distribution cables. These robust conductors are deployed across diverse environments, from urban settings to remote regions, ensuring reliable electricity transmission and distribution.

• Advantages

ACSR conductors are renowned for their unparalleled strength, offering optimal performance in line design and installation. The variable stranding of steel cores within the conductor structure allows for precise customization, ensuring that desired strength levels are achieved without compromising on ampacity. This versatility makes ACSR a preferred choice for various applications, including long-distance transmission lines and distribution networks.

• Construction

Constructed with high-quality aluminum 1350-H19 wires, concentrically stranded around a robust steel core, ACSR conductors are engineered to withstand demanding operating conditions. The steel core wire is available with class A, B, or C galvanizing, providing options for enhanced corrosion resistance tailored to specific environmental challenges. Additionally, corrosion protection can be further augmented through the application of grease to the core or by infusing the complete cable with grease, ensuring prolonged service life and reliability.

• Specifications

- ASTM B-230: Aluminum Wire, 1350-H19 for Electrical Purposes
- ASTM B-231: Aluminum Conductors, Concentric-Lay-Stranded
- ASTM B-232: Aluminum Conductors, Concentric-Lay-Stranded, Coated Steel Reinforced (ACSR)
- ASTM B-502: Aluminum-coated Steel Core Wire for Aluminum Conductors, Steel Reinforced (ACSR/AW)
- ASTM B-498: Zinc-coated Steel Core Wire for Aluminum Conductors, Steel Reinforced (ACSR)
- ASTM B-500: Zinc-coated and Aluminum-coated Stranded Steel Core for Aluminum Conductors, Steel Reinforced (ACSR)

• Eastful Cable Lab



We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction. CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

• Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rheinland and CCS.



• National Green Factory



Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China. We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

● Technical Parameters

Code Name	Calculated Cross Section Area				No./Dia.of Stranding Wires		Nominal Overall Diameter	Nominal Weight			Nominal Breaking Load	Max.D.C. Resistance at 20°C
	Size	Alum.	Steel	Total	Alum.	Steel		Alum.	Steel	Total		
-	AWG or MCM	mm ²	mm ²	mm ²	mm	mm	mm	kg/km	kg/km	kg/km	kN	Ω/km
Turkey	6	13.29	2.19	15.48	6/1.68	1/1.68	5.04	37	17	54	5.24	2.1586
Swan	4	21.16	3.55	24.71	6/2.12	1/2.12	6.36	58	27	85	8.32	1.3557
Swanate	4	21.16	5.35	26.51	7/1.96	1/2.61	6.53	58	42	100	10.53	1.3557
Aparrow	2	33.61	5.61	39.22	6/2.67	1/2.67	8.01	92	44	136	12.70	0.8535
Sparate	2	33.61	8.52	42.13	7/2.47	1/3.30	8.24	92	67	159	16.11	0.8535
Robin	1	42.39	7.10	49.49	6/3.00	1/3.00	9.00	116	55	171	15.85	0.6767
Raven	1/0	53.48	8.90	62.38	6/3.37	1/3.37	10.11	147	69	216	19.32	0.5364
Quail	2/0	67.42	11.23	78.65	6/3.78	1/3.78	11.34	185	88	273	23.62	0.4255
Pigeon	3/0	85.03	14.19	99.22	6/4.25	1/4.25	12.75	233	110	343	29.41	0.3373
Penguin	4/0	107.23	17.87	125.10	6/4.77	1/4.77	14.31	294	139	433	37.06	0.2675
Waxwing	266.8	135.16	7.48	142.64	18/3.09	1/3.09	15.45	373	58	431	30.27	0.2133
Partridge	266.8	135.16	22.00	157.16	26/2.57	7/2.00	16.28	374	172	546	50.29	0.2143
Ostrich	300	152.00	24.71	176.71	26/2.73	7/2.12	17.28	421	193	614	56.52	0.1906
Merlin	336.4	170.45	9.48	179.93	18/3.47	1/3.47	17.5	470	74	544	38.23	0.1691
Linnet	336.4	170.45	27.81	198.26	26/2.89	7/2.25	18.31	472	217	689	62.71	0.1699
Oriole	336.4	201.42	39.81	210.26	30/2.69	7/2.69	18.83	743	311	784	77.27	0.1704
Chickadee	397.5	201.42	11.16	212.58	18/3.77	1/3.77	18.85	555	87	642	43.99	0.1431
Brant	397.5	201.42	26.13	227.55	24/3.27	7/2.18	19.61	558	204	762	64.69	0.1438
Ibis	397.5	201.42	32.77	234.19	26/3.14	7/2.44	19.88	558	256	814	72.11	0.1438
Lark	397.5	201.42	46.97	248.39	30/2.92	7/2.92	20.44	560	367	927	88.69	0.1442
Pelican	477	241.68	13.42	255.10	18/4.14	1/4.14	20.70	666	105	771	52.16	0.1193
Flicker	477	241.68	31.29	272.97	24/3.58	7/2.39	21.49	670	245	915	76.66	0.1199
Hawk	477	241.68	39.42	281.10	26/3.44	7/2.67	21.79	670	308	978	86.64	0.1199
Hen	477	241.68	56.39	298.07	30/3.20	7/3.20	22.40	671	441	1112	105.34	0.1201
Osprey	556.5	282.00	15.68	297.68	18/4.47	1/4.47	22.35	777	122	899	60.88	0.1022
Oarakeet	556.5	282.00	36.58	318.58	24/3.87	7/2.58	23.22	781	286	1067	88.22	0.1027
Dove	556.5	282.00	45.94	327.94	26/3.72	7/2.89	23.55	781	359	1140	101.03	0.1027
Eagle	556.5	282.00	65.81	347.81	30/3.46	7/3.46	24.21	783	515	1298	122.92	0.1030
Peacock	605	306.58	39.74	346.32	24/4.03	7/2.69	24.20	849	311	1160	95.88	0.0945
squab	605	306.58	49.94	356.52	26/3.87	7/3.01	24.51	850	390	1240	108.14	0.0945
Wood Duck	605	306.58	71.55	378.13	30/3.61	7/3.61	25.25	851	560	1411	128.84	0.0947
Teal	605	306.58	69.87	376.45	30/3.61	19/2.16	25.24	851	548	1399	133.59	0.0947
Kingbird	636	322.26	17.90	340.16	18/4.78	1/4.78	23.88	889	139	1028	69.55	0.08960

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	Size	Alum.	Steel	Total	Alum.	Steel		Alum.	Steel	Total		
-	AWG or MCM	mm ²	mm ²	mm ²	mm	mm	mm	kg/km	kg/km	kg/km	kN	Ω/km
Rook	636	322.26	41.81	364.07	24/4.14	7/2.76	24.84	893	326	1219	103.00	0.08989
Grosbeak	636	322.26	52.45	374.71	26/3.97	7/3.09	25.15	893	409	1302	111.80	0.08989
Scoter	636	322.26	75.22	397.48	30/.70	7/3.70	25.88	895	589	1484	135.44	0.09011
Egret	636	322.26	73.55	395.81	30/3.70	19/2.22	25.90	894	576	1470	140.30	0.09011
Swift	636	337.74	8.96	331.22	36/3.38	1/3.38	23.62	888	70	958	143.00	0.08984
Flamingngo	666.6	337.74	43.81	381.55	24/4.23	7/2.82	25.40	936	342	1278	105.66	0.08577
Gannet	666.6	362.58	55.03	392.77	26/4.07	7/3.16	25.76	936	429	1365	117.33	0.08577
Stilt	715.5	362.58	46.97	409.55	24/4.39	7/2.92	26.31	1005	367	1372	113.35	0.07989
Starling	715.5	362.58	59.03	421.61	26/4.21	7/3.28	26.68	1005	461	1466	125.91	0.07989
Redwing	7 15.5	402.84	82.58	445.16	30/3.92	19/2.35	27.43	1006	647	1653	153.94	0.08009
Tern	795	402.84	27.87	430.71	45/3.38	7/2.25	27.03	1116	217	1333	97.93	0.07191
Condor	795	402.84	52.19	455.03	54/3.08	7/3.08	27.72	1116	408	1524	124.45	0.07191
Cuckoo	795	402.84	52.19	455.03	24/4.62	7/3.08	27.74	1116	408	1524	123.94	0.07191
Drake	795	402.84	65.61	468.35	26/4.44	7/3.45	28.11	1116	512	1628	139.92	0.7191
Coot	795	402.84	11.16	414	36/3.77	1/3.77	26.41	1110	88	1198	74.34	0.07156
Mallard	795	402.84	91.87	494.71	30/4.14	19/2.48	28.96	1119	719	1838	171.18	0.07208
Ruddy	900	456.06	31.54	487.60	45/3.59	7/2.40	28.73	1263	247	1510	108.96	0.06351
Canary	900	456.06	59.10	515.16	54/3.28	7/3.28	29.52	1263	461	1724	140.95	0.06351
Rail	954	483.42	33.42	516.84	45/3.70	7/2.47	29.61	1339	262	1601	115.63	0.05992
Catbird	954	483.42	13.42	496.84	36/4.14	1/4.14	28.95	1333	105	1438	87.66	0.05962
Cardinal	954	483.42	62.65	546.07	54/3.38	7/3.38	30.42	1399	490	1829	149.36	0.05992
Ortlan	1003.5	532.68	36.19	559.87	45/3.85	7/2.57	30.81	1451	283	1734	123.10	0.05531
Tanger	1003.5	532.68	14.51	538.19	36/4.30	1/4.30	30.12	1443	113	1556	94.93	0.05504
Curlew	1033.5	532.68	67.87	591.55	54/3.52	7/3.52	31.68	1451	530	1981	161.80	0.05531
Bluejay	1113	563.93	39.03	602.96	45/4.00	7/2.66	31.98	1563	385	1868	132.63	0.05136
Finch	1113	563.93	71.55	635.48	54/3.65	19/2.19	32.85	1570	560	2130	174.41	0.05161
Finch	1113	563.93	71.55	635.48	54/3.65	19/2.19	32.85	1570	560	2130	174.41	0.05161
Bunting	1192.5	604.26	41.55	648.81	45/4.14	7/2.76	33.12	1674	327	2001	141.79	0.04793
Grackle	1192.5	604.26	76.58	680.84	54/3.77	19/2.27	33.97	1682	600	2282	186.38	0.04817
Bittern	1272	644.51	44.52	689.03	45/4.27	7/2.85	34.17	1785	3496	2134	151.48	0.04494
Pheasant	1272	644.51	81.68	726.19	54/3.90	19/2.34	35.10	1795	638	2433	194.00	0.04516
Skylark	1272	644.51	17.87	662.38	36/4.78	1/4.78	33.42	1777	140	1917	115.85	0.04472
Dipper	1351.5	684.84	47.10	731.94	45/4.40	7/2.92	35.16	1898	368	2266	160.70	0.04230

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	Size	Alum.	Steel	Total	Alum.	Steel		Alum.	Steel	Total		
-	AWG or MCM	mm²	mm²	mm²	mm	mm	mm	kg/km	kg/km	kg/km	kN	Ω/km
Martin	1351.5	684.84	86.71	771.55	54/4.02	19/2.41	36.17	1906	679	2585	206.05	0.04250
Bobolink	1431	725.10	50.32	775.42	45/4.53	7/3.02	36.24	2009	393	2402	170.71	0.03994
Plover	1431	725.10	91.87	816.97	54/4.14	19/2.48	37.24	2019	719	2738	218.24	0.04013
Nuthatch	1510.50	765.35	52.90	818.25	45/4.65	7/3.10	37.20	2120	414	2534	199.84	0.03784
Parrot	1510.5	765.35	96.84	862.19	54/4.25	19/2.55	38.25	2131	759	2890	230.20	0.03802
Lapwing	1590	805.68	55.48	861.16	45/4.77	7/3.18	38.16	2232	435	2667	187.02	0.03595
Falcon	1590	805.68	102.13	907.81	54/4.36	19/2.62	39.26	2243	799	3042	242.55	0.03613
Grouse	80	40.52	14.13	56.65	8/2.54	1/4.24	9.32	112	110	222	23.60	0.7115
Petrel	101.8	51.61	30.06	81.67	12/2.34	7/2.34	11.71	143	235	378	41.75	0.5613
Minorca	110.8	56.13	32.77	88.9	12/2.44	7/2.44	12.22	156	256	412	51.25	0.5161
Leghorn	134.6	68.19	39.81	108.00	12/2.69	7/2.69	13.46	189	311	500	61.70	0.4248
Guinea	159	80.58	46.97	127.55	12/2.92	7/2.92	14.63	223	367	590	72.55	0.3595
Dotterel	176.9	89.48	52.19	141.67	12/3.08	7/3.08	15.42	248	409	657	78.50	0.3237
Dorking	190.8	96.71	56.39	153.1	12/3.20	7/3.20	16.03	268	441	709	84.80	0.2995
Brahma	203.2	102.97	91.87	194.84	16/2.86	19/2.48	18.14	285	722	1007	128.80	0.2813
Cochin	211.3	107.10	62.45	169.55	12/3.37	7/3.37	16.84	297	488	785	93.90	0.2705