OVERHEAD CONDUCTOR

HUATONG
华通股份

ABOUT US

Huatong Cable Inc. was founded in 1993 in Luoyang, Henan Province, the venerable historical capital that has been sacred ground since the late Neolithic period and known for its beautiful peonies. Luoyang was among the first “National Historical and Cultural Cities” listed by the State Council, and also the most important industrial city in central China. Born during the rapid industrialization of China, Huatong Cable Inc. has made notable contributions to the development of State Grid Corporation of China, China Southern Power Grid Company and other power enterprises at home and abroad. The honors Huatong has won are well-deserved, thanks to its determined pursuit of product innovation, painstaking efforts to serve the customers and strong will to forge ahead into the future for over twenty years.

Huatong Cable Inc. is comprised of the Overhead Conductor Business Division, the Power Cable Division and the Business Division for Wires and Cables of Electrical Equipment. All three divisions are responsible for the manufacturing and sales of their respective products. In 2002, the Division for Cable Industrial Design and Technology R&D was established to provide product design and R&D support for the company. As a complement to its independent research, and in order to meet specific requirements of individual customers as well as market demand for special cables, Huatong has also sought cooperation with Shanghai Electric Cable Research Institute and China Electric Power Research Institute, among other academic institutions. So far the company enjoys 25 exclusive rights to use registered trade mark and 14 patents of proprietary intellectual property rights, among which, ACSR-720/50 has passed the technical evaluation by the China Electricity Council while its EHV(Extra High Voltage) conductor at 1000kV+ has been put into production and use, with satisfactory performance.

Products of Huatong Cable Inc. are widely applicable in power transmission, transport, energy and urban construction, etc. It adopts the team marketing method and has set up regional sales sections, with more than a hundred sales outlets and hundreds of salespersons capable of optimizing customer satisfaction all over China. Our partners are not limited to state-owned electric power companies: we have provided high quality products for China Datang Corporation, China Huaneng Group, China Guodian Corporation, China Power Investment Corporation, Sinopec Group, China National Petroleum Corporation, etc., as well. In addition, the company has also been the supplier for national key projects like the Qinghai-Tibet Railway, the Wuhan-Guangzhou Railway, the West-East Natural Gas Transmission, the South-to-North Water Diversion and the Three Gorges Dam. International partners include America, India, Burma, the Philippines, Australia, Nigeria, Kenya, Ghana, South Africa, Brazil and Chile, among other countries. Huatong becomes increasingly well-known and has won the trust of more and more customers.

In 2013, the Huatong brand was awarded the “China Famous Trade Mark” by the Trademark Office of China’s State Administration of Industry and Commerce, which eloquently demonstrates Huatong’s brand influence and prestige among Chinese customers. Huatong is also the first Henan-based brand to have won such an honor. In 2015 Huatong Cable was successfully listed on NEEQ stock market, which is bound to further enhance the company’s reputation and help it expand in an accelerated yet steady manner. Huatong Cable Inc. is dedicated to improve itself by contributing to the customer’s progress. It seeks to strengthen its strategic partnership with customers with business model innovation, product portfolio restructuring and development of environmentally-friendly high quality products. With this objective in mind, Huatong Cable Inc. will continue its unswerving efforts to better serve the customer and embrace the future.

CRAFTSMANSHIP

Drawing

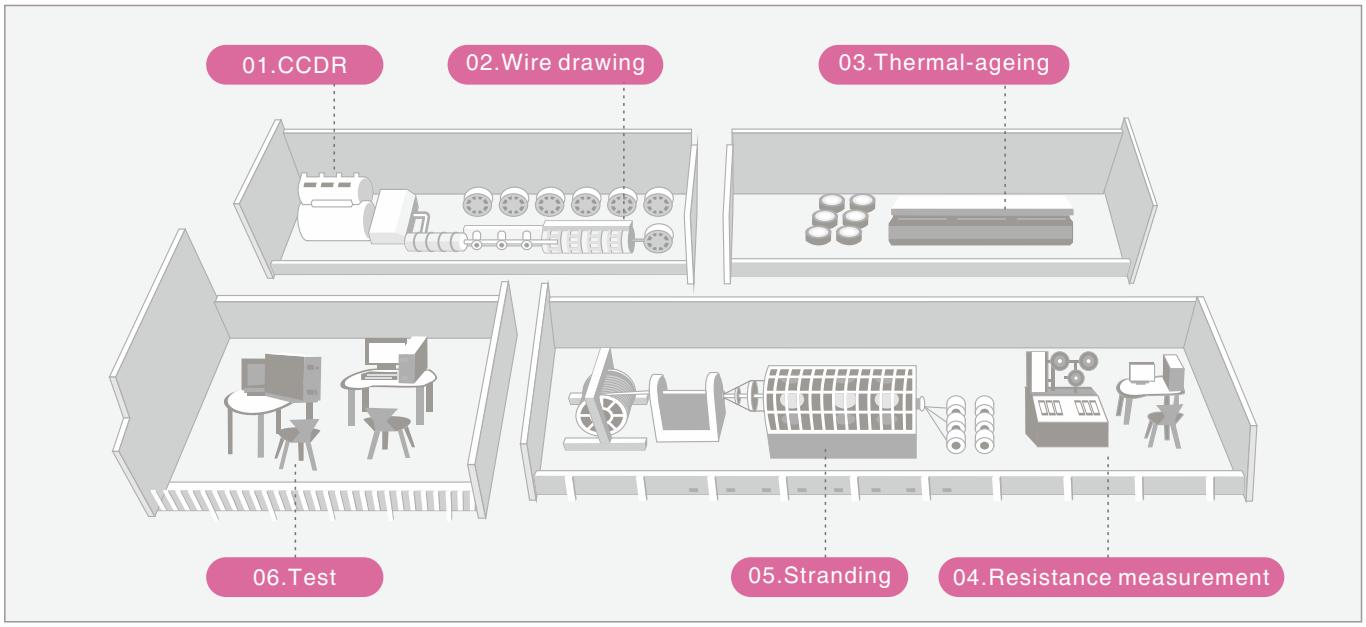
Drawing means to reduce the cross-section of the aluminum or copper electric materials whose diameter is 8-9 mm by pulling them through the drawing dies and molding them into the desired cross-section shape and size. Usually the diameter of the semi-finished metallic wire is 0.025-6.5 mm.

Stranding

Stranding means to twist several wires of same or different diameters in a certain direction and configuration to form a stranded wire. When used directly it is called a bare conductor wire; when the stranded wire is used as conductor of an insulated cable, it is called a comprehensive core, which is the major component of an insulated cable.

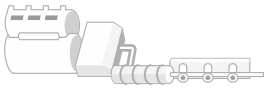
Finished Product

Overhead conductor is comprised of aluminum wires, aluminum alloy wires, aluminum-clad steel wires and steel wires. With the rapid development of electric power industry, customers hold higher product standards in terms of material and product portfolio diversity, such as larger volume, higher transmission efficiency, lower wind pressure, resistance against ice, snow and shaking, etc. Through years of research and development, we have made great strides in improving the performance of conductors.



01

CCDR (Continue Casting Direct Rolling)
Put the Aluminum ingot into the melting furnace, moulding it into Aluminum rod or Aluminum alloy rod of diameter 8-9.5mm after melt.



02

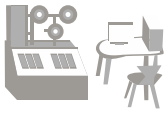
Wire drawing
Draw the electric round aluminum rod into wire of diameter 0.15-5mm with high-speed drawing equipment.

03

High-temperature processing
In order to make kinds of conductors, change physical property of Aluminum wire or Aluminum alloy wire with high-temperature processing.

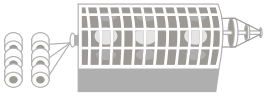
04

Resistance measurement
The measurement of the semi-finished conductor can avoid the low quality.



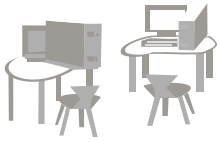
05

Stranding
Strand one or more wire layers surrounding the concentric wire into conductor.



06

Test
The overhead stranded conductors, which will be used in high-voltage or extra-high voltage power lines, should be strictly tested before put into market.



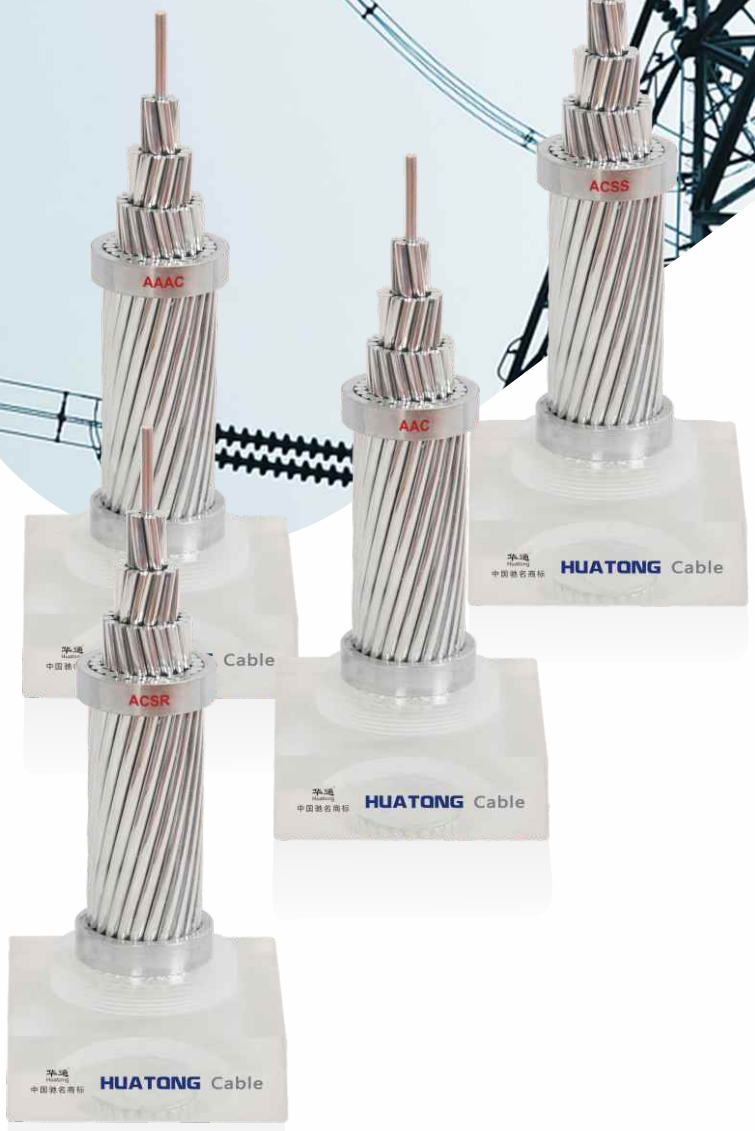


TABLE OF CONTENTS

ACSR

Aluminum Conductor. Steel Reinforced.

APPLICATIONS

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

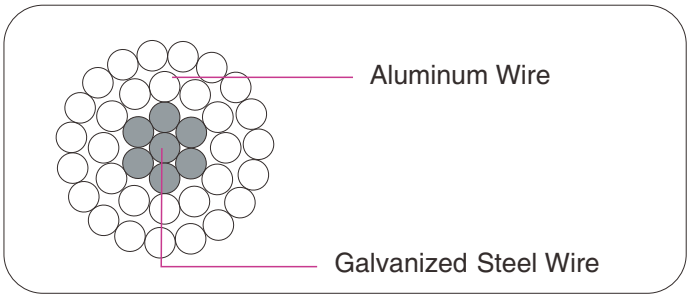
SPECIFICATIONS

Huatong™ ACSR bare conductor meets or exceeds the following ASTM specifications:

- B230 Aluminum 1350-H19 Wire for Electrical Purposes.
- B232 Concentric-Lay-Stranded Aluminum Conductors, Coated-Steel Reinforced (ACSR).
- B498 Zinc-Coated (Galvanized) Steel Core Wire for Use in Overhead Electrical Conductors.
- B500 Metallic Coated Stranded Steel Core for Use in Overhead Electrical Conductors.

CONSTRUCTION

- Aluminum 1350-H19 wires, concentrically stranded about a steel core. Standard core wire for ACSR is class A galvanized.
- Class A core stranding is also available in zinc-5% aluminum-mischmetal alloy coating.
- For aluminum-clad (AW) ACSR, please refer to the ACSR/AW catalog sheet
- Additional corrosion protection is available through the application of grease to the core or infusion of the complete cable with grease.
- ACSR conductor is also available in non-specular.



ACSR

Aluminum Conductor. Steel Reinforced

ACSR

Code Word	Size (AWG or kcmil)	Strand-ing (Al/Aw)	Diameter (ins.)				Weight Per 1000 ft. (lbs)			Content (%)		Rated Strength (lbs.)	Resistance OHMS/1000 ft		Allowable Ampacity+ Amps
			Individual Wires		Steel Core	Complete Cable	Al	Stl	Total	Al	Stl		DC@ 20°C	AC@ 75°C	
			Al	Stl											
Turkey	6	6/1	.0661	.0661	.0661	.198	24	12	36	67.88	32.12	1190	.641	.806	105
Swan	4	6/1	.0834	.0834	.0834	.25	39	18	57	67.87	32.12	1860	.403	.515	140
Swanate	4	7/1	.0772	.103	.103	.257	39	28	67	58.1	41.9	2360	.399	.519	140
Sparrow	2	6/1	.1052	.1052	.1052	.316	62	29	91	67.9	32.1	2850	.254	.332	184
Sparate	2	7/1	.0974	.1298	.1298	.325	62	45	107	58.12	41.88	3460	.251	.338	184
Robin	1	6/1	.1181	.1181	.1181	.354	78	37	115	67.88	32.12	3550	.201	.268	212
Raven	1/0	6/1	.1327	.1327	.1327	.398	99	47	145	67.89	32.11	4380	.159	.217	242
Quail	2/0	6/1	.1489	.1489	.1489	.447	124	59	183	67.88	32.12	5310	.126	.176	276
Pigeon	3/0	6/1	.1672	.1672	.1672	.502	156	74	230	67.87	32.13	6620	.100	.144	315
Penguin	4/0	6/1	.1878	.1878	.1878	.563	197	93	291	67.88	32.12	8350	.0795	.119	357
Waxwing	266.8	18/1	.1217	.1217	.1217	.609	250	39	289	86.43	13.57	6880	.0643	.0787	449
Partridge	266.8	26/7	.1013	.0788	.2363	.642	251	115	367	68.51	31.49	11300	.0637	.0779	475
Ostrich	300	26/7	.1074	.0835	.2506	.68	283	130	412	68.51	31.49	12700	.0567	.0693	492
Merlin	336.4	18/1	.1367	.1367	.1367	.684	315	49	365	86.43	13.57	8680	.0510	.0625	519
Linnet	336.4	26/7	.1137	.0885	.2654	.72	317	146	462	68.51	31.49	14100	.0505	.0618	529
Oriole	336.4	30/7	.1059	.1059	.3177	.741	318	209	526	60.35	39.65	17300	.0502	.0613	535
Chickadee	397.5	18/1	.1486	.1486	.1486	.743	373	58	431	86.43	13.57	9940	.0432	.0529	576
Brant	397.5	24/7	.1287	.0858	.2574	.772	374	137	511	73.21	26.79	14600	.0430	.0526	584
Ibis	397.5	26/7	.1236	.0962	.2885	.783	374	172	546	68.51	31.49	16300	.0428	.0523	587
Lark	397.5	30/7	.1151	.1151	.3453	.806	375	247	622	60.35	39.65	20300	.0425	.0519	594
Pelican	477	18/1	.1628	.1628	.1628	.814	447	70	517	86.44	13.56	11800	.0360	.0442	646
Flicker	477	24/7	.141	.094	.2819	.846	449	164	614	73.21	26.79	17200	.0358	.0439	655
Hawk	477	26/7	.1354	.1053	.316	.858	449	207	656	68.51	31.49	19500	.0356	.0436	659
Hen	477	30/7	.1261	.1261	.3783	.883	450	296	746	60.35	39.65	23800	.0354	.0433	666
Osprey	556.5	18/1	.1758	.1758	.1758	.879	522	82	603	86.43	13.57	13700	.0308	.0379	711
Parakeet	556.5	24/7	.1523	.1015	.3045	.914	524	192	716	73.21	26.79	19800	.0307	.0376	721
Dove	556.5	26/7	.1463	.1138	.3413	.927	524	241	765	68.51	31.49	22600	.0306	.0375	726
Eagle	556.5	30/7	.1362	.1362	.4086	.953	525	345	871	60.35	39.65	27800	.0303	.0372	734
Peacock	605	24/7	.1588	.1059	.3177	.953	570	209	779	73.2	26.8	21600	.0282	.0346	760
Squab	605	26/7	.1525	.1186	.3559	.966	570	262	832	68.51	31.49	24300	.0281	.0345	765
Wood	605.0	30/7	.142	.142	.426	.994	571	375	946	60.35	39.65	28900	.0279	.0342	774
Duck Teal	605.0	30/19	.142	.0852	.426	.994	571	367	939	60.86	39.14	30000	.0279	.0342	773
Kingbird	636	18/1	.188	.188	.188	.94	596	94	690	86.43	13.57	15700	.0270	.0332	773
Swift	636.0	36/1	.1329	.1329	.1329	.93	596	47	643	92.72	7.28	13690	.0271	.0334	769
Rook	636	24/7	.1628	.1085	.3256	.977	599	219	818	73.22	26.78	22600	.0268	.0330	784
Grosbeak	636	26/7	.1564	.1216	.3649	.991	599	275	874	68.51	31.49	25200	.0267	.0328	789
Scoter	636.0	30/7	.1456	.1456	.4368	1.019	600	395	995	60.35	39.65	30400	.0256	.0325	798
Egret	636	30/19	.1456	.0874	.4368	1.019	600	386	987	60.85	39.15	31500	.0266	.0326	798
Flamingo	666.6	24/7	.1667	.1111	.3333	1	628	230	858	73.21	26.79	23700	.0256	.0315	807
Gannet	666.6	26/7	.1601	.1245	.3736	1.014	628	289	916	68.51	31.49	26400	.0255	.0313	812
Stilt	715.5	24/7	.1727	.1151	.3453	1.036	674	247	920	73.21	26.79	25500	.0239	.0294	844
Starling	715.5	26/7	.1659	.129	.3871	1.051	674	310	984	68.51	31.49	28400	.0238	.0292	849
Redwing	715.5	30/19	.1544	.0927	.4633	1.081	676	435	1110	60.85	39.15	34600	.0236	.0290	859
Coot	795	36/1	.1486	.1486	.1486	1.04	745	58	804	92.72	7.28	16710	.0217	.0268	884

ACSR

Aluminum Conductor. Steel Reinforced

ACSR

Code Word	Size (AWG or kcmil)	Strand-ing (Al/Aw)	Diameter (ins.)				Weight Per 1000 ft. (lbs)			Content (%)		Rated Strength (lbs.)	Resistance OHMS/1000 ft		Allowable Ampacity+ Amps
			Individual Wires		Steel Core	Complete Cable	Al	Stl	Total	Al	Stl		DC@ 20°C	AC@ 75°C	
			Al	Stl											
Drake	795	26/7	.1749	.136	.408	1.107	749	344	1093	68.51	31.49	31500	.0214	.0263	907
Tern	795	45/7	.1329	.0886	.2658	1.063	749	146	895	83.67	16.33	22100	.0216	.0269	887
Condor	795	54/7	.1213	.1213	.364	1.092	749	274	1023	73.21	26.79	28200	.0215	.0272	889
Mallard	795	30/19	.1628	.0977	.4884	1.14	751	483	1234	60.86	39.14	38400	.0213	.0261	918
Ruddy	900	45/7	.1414	.0943	.2828	1.131	848	165	1013	83.67	16.33	24400	.0191	.0239	958
Canary	900	54/7	.1291	.1291	.3873	1.162	848	310	1158	73.22	26.78	31900	.0190	.0241	961
Rail	954	45/7	.1456	.0971	.2912	1.165	899	175	1074	83.67	16.33	25900	.0180	.0225	993
Cardinal	954	54/7	.1329	.1329	.3987	1.196	899	329	1227	73.21	26.79	33800	.0179	.0228	996
Ortolan	1033.5	45/7	.1515	.101	.3031	1.212	973	190	1163	83.67	16.33	27700	.0167	.0209	1043
Curlew	1033.5	54/7	.1383	.1383	.415	1.245	973	356	1330	73.21	26.79	36600	.0165	.0211	1047
Bluejay	1113	45/7	.1573	.1048	.3145	1.258	1048	205	1253	83.67	16.33	29800	.0155	.0194	1092
Finch	1113	54/19	.1436	.0861	.4307	1.292	1053	375	1429	73.72	26.28	39100	.0154	.0197	1093
Bunting	1192.5	45/7	.1628	.1085	.3256	1.302	1123	219	1343	83.67	16.33	32000	.0144	.0182	1139
Grackle	1192.5	54/19	.1486	.0892	.4458	1.337	1129	402	1531	73.72	26.28	41900	.0144	.0184	1140
Bittern	1272	45/7	.1681	.1121	.3362	1.345	1198	234	1432	83.67	16.33	34100	.0135	.0171	1184
Pheasant	1272	54/19	.1535	.0921	.4605	1.381	1204	429	1633	73.71	26.29	43600	.0135	.0173	1187
Dipper	1351.5	45/7	.1733	.1155	.3466	1.386	1273	248	1521	83.67	16.33	36200	.0127	.0162	1229
Martin	1351.5	54/19	.1582	.0949	.4746	1.424	1279	456	1735	73.72	26.28	46300	.0127	.0163	1232
Bobolink	1431	45/7	.1783	.1189	.3566	1.427	1348	263	1611	83.67	16.33	38300	.0120	.0153	1272
Lapwing	1590	45/7	.188	.1253	.3759	1.504	1498	292	1790	83.67	16.33	42200	.0108	.0139	1354
Falcon	1590	54/19	.1716	.103	.5148	1.544	1505	536	2041	73.72	26.28	54500	.0108	.0140	1359
Chukar	1780	84/19	.1456	.0874	.4368	1.602	1685	386	2072	81.35	18.65	51000	.0097	.0125	1453
Bluebird	2156	84/19	.1602	.0962	.4808	1.762	2040	468	2508	81.34	18.66	60300	.00801	.0105	1623
Kiwi	2167	72/7	.1735	.1157	.347	1.735	2051	249	2300	89.17	10.82	49800	.00801	.0106	1607

+Conductor temperature of 75°C ambient temperature,25°C emissivity 0.5, wind 2 ft./sec., in sun

ACSR

Code Word	Size (AWG or kcmil)	Strand-ing (Al/Aw)	Diameter (ins.)				Weight Per 1000 ft. (lbs)			Content (%		Rated Strength (lbs.)	Resistance OHMS/1000 ft		Allowable Ampacity + (Amps)
			Individual Wires		Steel Core	Complete Cable	Al	Stl	Total	Al	Stl		DC@ 20°C	AC@ 75°C	
			Al	Stl											
HIGH MECHANICAL STRENGTH															
Grouse	80	8/1	.1	.1667	.1667	.367	75	74	149	50.48	49.52	5200	.207	.294	204
Petrel	101.8	12/7	.0921	.0921	.2763	.461	96	158	254	37.79	62.21	10400	.158	.250	237
Minorca	110.8	12/7	.0961	.0962	.2885	.481	104	172	276	37.75	62.25	11300	.145	.235	248
Leghorn	134.6	12/7	.1059	.1059	.3177	.53	127	209	335	37.79	62.21	13600	.120	.204	273
Guinea	159.0	12/7	.1151	.1151	.3453	.576	150	247	396	37.79	62.21	16000	.101	.181	297
Dotterel	176.9	12/7	.1214	.1214	.3642	.607	167	274	441	37.79	62.21	17300	.0911	.169	312
Dorking	190.8	12/7	.1261	.1261	.3783	.63	180	296	476	37.78	62.22	18700	.0845	.160	324
Cochin	211.3	12/7	.1327	.1327	.398	.663	199	328	527	37.8	62.2	28400	.0763	.150	340

+Conductor temperature of 75°C ambient temperature,25°C emissivity 0.5, wind 2 ft./sec., in sun

AAC

All Aluminum Conductor.

APPLICATIONS

Classes AA and A are used primarily for overhead transmission and primary and secondary distribution, where ampacity must be maintained and a lighter conductor (compared to ACSR) is desired, and when conductor strength is not a critical factor. Classes B and C are used primarily as bus, apparatus connectors and jumpers, where additional flexibility is required.

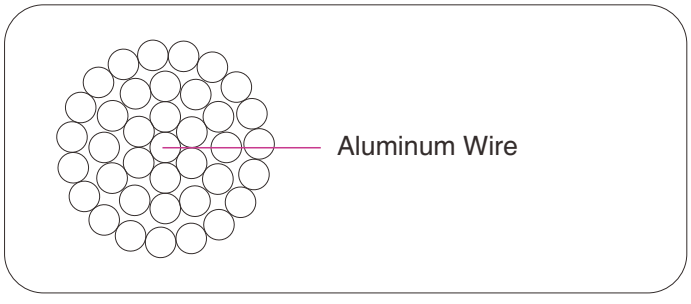
SPECIFICATIONS

Huatong™ AAC bare conductor meets or exceeds the following ASTM specifications:

- B230 Aluminum 1350-H19 Wire for Electrical Purposes.
- B231 Concentric-Lay-Stranded Aluminum 1350 Conductors.

CONSTRUCTION

Aluminum 1350-H19 wires, concentrically stranded.



AAC

All Aluminum Conductor

AAC

Code Word	Size (AWG or kcmil)	Stranding		Diameter (ins.)		Cross-Sectional Area (Sq. ins.)	Weight Per 1000 ft. (lbs.)	Rated Strength (lbs.)	Resistance OHMS/1000 ft.		Allowable Ampacity+ (Amps)
		No. of Wires	Class	Individual Wires	Complete Cable				DC @ 20°C	AC @ 75°C	
Peachbell	6	7	A	.0612	.184	.0206	25	563	.658	.805	103
Rose	4	7	A	.0772	.232	.0328	39	881	.414	.506	138
Iris	2	7	AA, A	.0974	.292	.0522	62	1350	.260	.318	185
Pansy	1	7	AA	.1093	.328	.0657	78	1640	.207	.252	214
Poppy	1/0	7	AA, A	.1228	.368	.0829	99	1990	.164	.200	247
Aster	2/0	7	AA, A	.1379	.414	.1045	125	2510	.130	.159	286
Phlox	3/0	7	AA, A	.1548	.464	.1317	157	3040	.103	.126	331
Oxlip	4/0	7	AA, A	.1739	.522	.1663	198	3830	.0817	.0999	383
Sneezewort	250	7	AA	.189	.567	.1964	234	4520	.0691	.0846	425
Valerian	250	19	A	.1147	.574	.1963	234	4660	.0691	.0846	426
Daisy	266.8	7	AA	.1952	.586	.2095	250	4830	.0648	.0793	443
Laurel	266.8	19	A	.1185	.592	.2095	250	4970	.0648	.0793	444
Peony	300	19	A	.1257	.628	.2358	281	5480	.0576	.0706	478
Tulip	336.4	19	A	.1331	.665	.2644	315	6150	.0514	.0630	513
Daffodil	350	19	A	.1357	.679	.2748	328	6390	.0494	.0605	526
Canna	397.5	19	AA, A	.1446	.723	.312	373	7110	.0435	.0534	570
Goldentuft	450	19	AA	.1539	.769	.3534	422	7890	.0384	.0472	616
Cosmos	477	19	AA	.1584	.792	.3744	447	8360	.0362	.0445	639
Syringa	477.0	37	A	.1135	.795	.3744	447	8690	.0362	.0445	639
Zinnia	500	19	AA	.1622	.811	.3926	469	8760	.0346	.0425	658
Hyacinth	500	37	AA	.1162	.814	.3924	469	9110	.0346	.0425	658
Dahlia	556.5	19	AA	.1711	.856	.4369	522	9750	.0311	.0382	703
Mistletoe	556.5	37	AA	.1226	.858	.4368	522	9940	.0311	.0382	704
Meadowsweet	600	37	AA	.1273	.891	.4709	562	10700	.0228	.0355	738
Orchid	636.0	37	AA, A	.1311	.918	.4995	596	11400	.0272	.0335	765
Heuchera	650	37	AA	.1325	.928	.5102	609	11600	.0266	.0328	775
Verbena	700	37	AA	.1375	.963	.5494	656	12500	.0247	.0305	812
Flag	700	61	A	.1071	.964	.5495	656	12900	.0247	.0305	812
Violet	715.5	37	AA	.1391	.973	.5623	671	12800	.0242	.0299	823
Nasturtium	715.5	61	AA	.1083	.975	.5619	671	13100	.0242	.0299	823
Petunia	750.0	37	AA	.1424	.997	.5893	703	13100	.0230	.0286	847
Cattail	750	61	AA	.1109	.998	.5892	703	13500	.0230	.0286	847
Arbutus	795	37	AA	.1466	1.026	.6245	745	13900	.0217	.0270	878
Lilac	795.0	61	A	.1142	1.027	.6248	745	14300	.0217	.0270	879
Cockscomb	900	37	AA	.156	1.092	.7072	844	15400	.0192	.0239	948
Snapdragon	900	61	AA	.1215	1.093	.7072	844	15900	.0192	.0239	948
Magnolia	954.0	37	AA	.1606	1.124	.7495	894	16400	.0181	.0226	982
Goldenrod	954.0	61	A	.1251	1.125	.7498	894	16900	.0181	.0226	983
Hawkweed	1000	37	AA	.1644	1.151	.7854	937	17200	.0173	.0216	1010
Camellia	1000	61	AA	.128	1.152	.7849	937	17700	.0713	.0216	1011
Bluebell	1033.5	37	AA	.1671	1.17	.8114	969	17700	.0167	.0210	1031
Larkspur	1033.5	61	AA	.1302	1.171	.8122	969	18300	.0167	.0210	1032
Marigold	1113.0	61	AA, A	.1351	1.216	.8744	1043	19700	.0155	.0195	1079
Hawthorn	1192.5	61	AA, A	.1398	1.258	.9363	1118	21100	.0145	.0183	1124
Narcissus	1272.0	61	AA, A	.1444	1.3	.999	1192	22000	.0136	.0173	1169
Columbine	1351.5	61	AA, A	.1488	1.34	1.0608	1267	23400	.0128	.0163	1212
Carnation	1431	61	AA, A	.1532	1.378	1.1244	1341	24300	.0121	.0155	1253
Gladiolus	1510.5	61	A	.1574	1.416	1.1869	1416	25600	.0144	.0147	1294
Coreopsis	1590.0	61	AA	.1614	1.453	1.248	1490	27000	.0109	.0141	1333
Jessamine	1750.0	61	AA	.1694	1.524	1.3748	1640	29700	.00988	.0129	1408
Cowslip	2000.0	91	A	.1482	1.631	1.5697	1875	34200	.00864	.0115	1518
Sagebrush	2250	91	A	.1572	1.73	1.7662	2130	37500	.00776	.0105	1612
Lupine	2500.0	91	A	.1657	1.823	1.9623	2366	41900	.00698	.00969	1706
Bitterroot	2750	91	A	.1738	1.912	2.1589	2603	46100	.00635	.00900	1793
Trillium	3000	127	A	.1537	1.998	2.3564	2839	50300	.00582	.00834	1874
Bluebonnet	3500	127	A	.166	2.158	2.7486	3345	58700	.00499	.00756	2024

+Conductor temperature of 75°C, ambient temperature 25°C, emissivity 0. 5, wind 2 ft. /sec. in sun.

AAAC

All Aluminum-Alloy Conductor.

APPLICATIONS

Used as bare overhead conductor for primary and secondary distribution. Designed utilizing a high-strength aluminum-alloy to achieve a high strength-to-weight ratio; affords good sag characteristics. Aluminum-alloy gives 6201-T81 gives AAAC higher resistance to corrosion than ACSR.

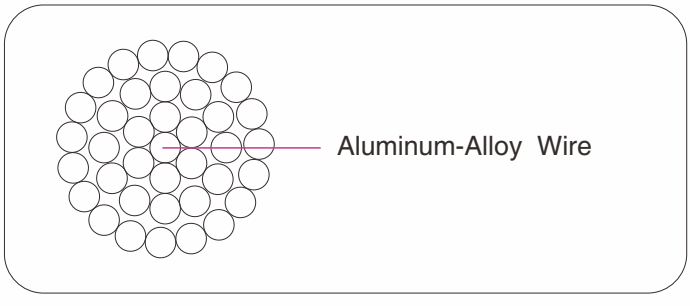
SPECIFICATIONS

Huatong™ AAAC-6201-T81 bare conductor meets or exceeds the following ASTM specifications:

- B398 Aluminum-Alloy 6201-T81 Wire for Electrical Purposes.
- B399 Concentric-Lay-Stranded Aluminum-Alloy 6201-T81 Conductors.

CONSTRUCTION

Aluminum-alloy 6201-T81 wires, concentrically stranded.



AAAC

All Aluminum-Alloy Conductor

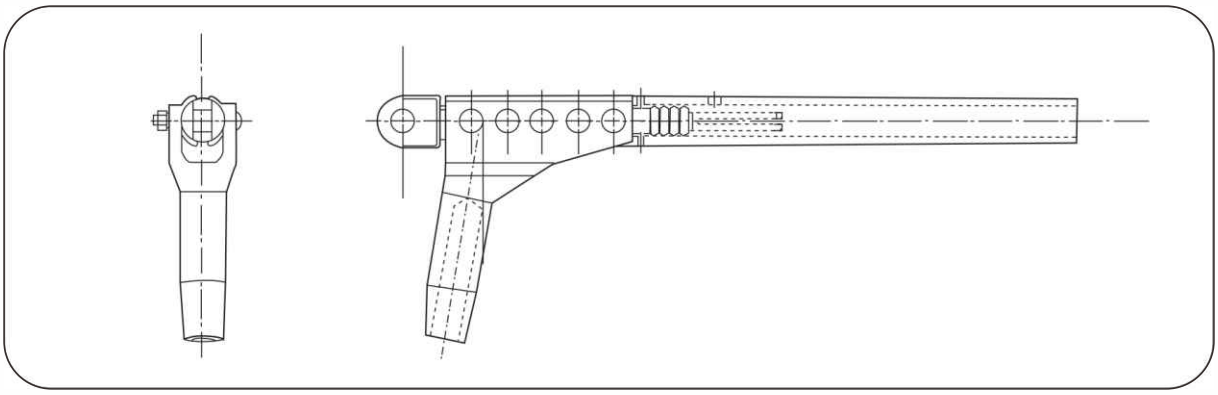
AAAC-6201

Code Word	Size (kcmil)	Strand-ing	Diameter (ins.)		Cross-Sectional Area (Sq. ins.)	Weight Per 1000 ft. (lbs.)	Rated Strength (lbs.)	Resistance OHMS/1000 ft.		Allowable Ampacity + (Amps)	ACSR With Equiv. Diam.		Approx. EC Cond. With Equivalent Resistance
			Individual Wires	Complete Cables				DC @ 20°C	AC @ 75°C		Size	Stranding (AL/STL)	
Akron	30.58	7	0.0661	0.198	0.0240	28.5	1110	.659	.785	107	6	6/1	6
Alton	48.69	7	0.0834	0.250	0.0382	45.4	1760	.414	.493	143	4	6/1	4
Ames	77.47	7	0.1052	0.316	0.0608	72.2	2800	.260	.310	191	2	6/1	2
Azusa	123.3	7	0.1327	0.398	0.0968	115	4460	.163	.195	256	1/0	6/1	1/0
Anaheim	155.4	7	0.1490	0.447	0.1221	144.9	5390	.130	.154	296	2/0	6/1	2/0
Amherst	195.7	7	0.1672	0.502	0.1537	182.5	6790	.103	.123	342	3/0	6/1	3/0
Alliance	246.9	7	0.1878	0.563	0.1939	230.2	8560	.0816	.0973	395	4/0	6/1	4/0
Butte	312.8	19	0.1283	0.642	0.2456	291.7	11000	.0644	.0769	460	266.8	26/7	266.8
Canton	394.5	19	0.1441	0.72	0.3099	367.9	13300	.0511	.0610	532	336.4	26/7	336.4
Cairo	465.4	19	0.1565	0.783	0.3655	434.0	15600	.0433	.0518	590	397.5	26/7	397.5
Darien	559.5	19	0.1716	0.858	0.4394	521.7	18800	.0360	.0431	663	477	26/7	477
Elgin	652.4	19	0.1853	0.927	0.5124	608.4	21900	.0309	.0371	729	556.5	26/7	556.5
Flint	740.8	37	0.1415	0.990	0.5818	690.8	24400	.0272	.0327	790	636	26/7	636
Greeley	927.2	37	0.1583	1.108	0.7282	864.6	30500	.0217	.0263	908	795	26/7	795

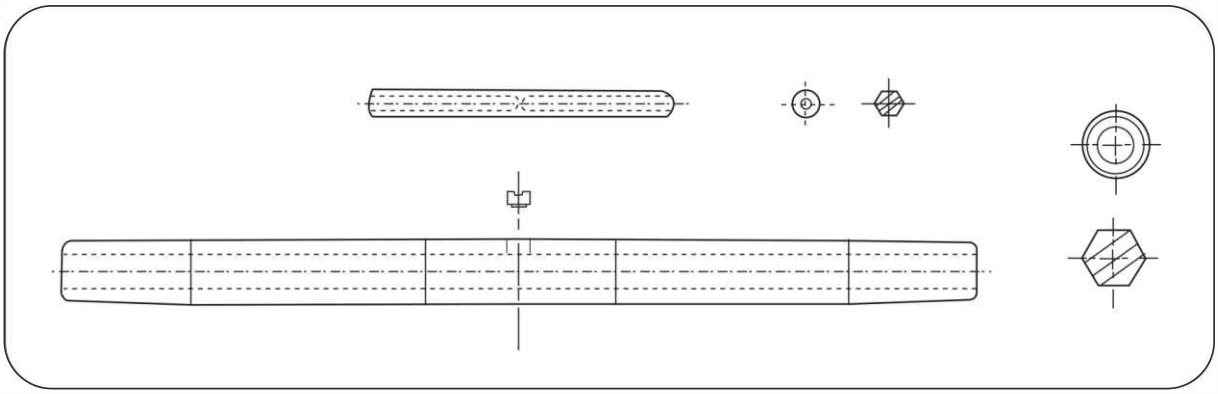
+Ampacity based on N18 conductor temperature, 25°C ambient temperature, 2 ft/sec. wind in sun, emissivity 0.5, 52.5% conductivity.

Conductor Fittings for Hi-TACSR/AW (EST)

Compression Type Strain Clamp



Compression Type Joint Sleeve



ACAR

Aluminum Conductor. Aluminum Alloy Reinforced.

APPLICATIONS

Used as bare overhead transmission cable and as primary and secondary distribution cable. A good strength-to-weight ratio makes ACAR applicable where both ampacity and strength are prime considerations in line design; for equal weight, ACAR offers higher strength and ampacity than ACSR.

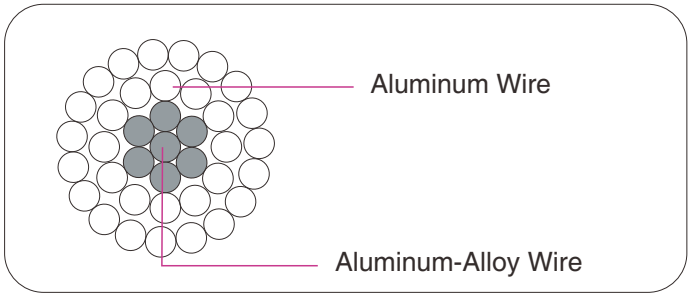
SPECIFICATIONS

Huatong™ ACAR bare conductor meets or exceeds the following ASTM specifications:

- B230 Aluminum 1350-H19 Wire for Electrical Purposes.
- B398 Aluminum-Alloy 6201-T81 Wire for Electrical Purposes.
- B524 Concentric-Lay-Stranded Aluminum Conductors, Aluminum-Alloy Reinforced (ACAR,1350/6201).

CONSTRUCTION

Aluminum 1350-H19 wires, concentrically stranded about an aluminum-alloy 6201-T81 core. Although the alloy strands generally comprise the core of the conductor, in some constructions they are distributed in layers throughout the aluminum 1350-H19 strands.



ACAR

Aluminum Conductor. Aluminum Alloy Reinforced

ACAR

Size (kcmil)	Strand-ing (EC/3201)	Diameter (ins.)			Weight Per 1000 ft. (lbs.)	Rated Strength (lbs.)	Resistance OHMS/1000 ft.		Allowable Ampacity+ (Amps)
		Individual Wires		Comp. Cable			DC @ 20°C	AC @ 75°C	
		6201	1350						
355.0	12/7	0.1367	0.1367	0.683	332.1	8500	.0514	.0624	519
465.9	12/7	0.1566	0.1566	0.783	435.8	11000	.0392	.0477	616
503.6	12/7	0.1628	0.1628	0.814	471.1	11900	.0362	.0441	646
653.1	12/7	0.1854	0.1854	0.927	611.0	15400	.0279	.0342	760
739.8	30/7	0.1414	0.1414	0.990	692.7	15300	.0240	.0296	831
739.8	18/19	0.1414	0.1414	0.990	691.6	18800	.0252	.0308	814
853.7	30/7	0.1519	0.1519	1.063	799.3	17500	.0208	.0257	907
853.7	18/19	0.1519	0.1519	1.063	798.0	21500	.0218	.0268	890
927.2	30/7	0.1583	0.1583	1.108	868.2	19000	.0192	.0238	955
927.2	18/19	0.1583	0.1583	1.108	866.7	23400	.0201	.0247	936
1024.5	30/7	0.1664	0.1664	1.165	959.3	20900	.0173	.0216	1015
1024.5	18/19	0.1664	0.1664	1.165	957.7	25800	.0182	.0225	995
1081.0	30/7	0.1709	0.1709	1.196	1012.1	22100	.0164	.0205	1048
1081.0	18/19	0.1709	0.1709	1.196	1010.5	27200	.0172	.0213	1028
1109.0	30/7	0.1731	0.1731	1.212	1038.4	22700	.0160	.0200	1065
1109.0	18/19	0.1731	0.1731	1.212	1036.6	27900	.0168	.0208	1044
1172.0	30/7	0.1780	0.1780	1.246	1097.3	24000	.0152	.0190	1101
1172.0	18/19	0.1780	0.1780	1.246	1095.5	29500	.0159	.0198	1080
1197.0	30/7	0.1799	0.1799	1.259	1120.8	24500	.0148	.0187	1115
1197.0	18/19	0.1799	0.1799	1.259	1118.9	30200	.0156	.0194	1094
1280.0	30/7	0.1860	0.1860	1.302	1198.5	26200	.0139	.0175	1160
1280.0	18/19	0.1860	0.1860	1.302	1196.5	32200	.0146	.0182	1139
1361.0	42/19	0.1494	0.1494	1.344	1273.6	30300	.0133	.0168	1196
1527.0	42/19	0.1582	0.1582	1.424	1428.8	33600	.0118	.0151	1314
1703.0	42/19	0.1671	0.1671	1.504	1593.5	37500	.0106	.0137	1363
1933.0	42/19	0.1780	0.1780	1.602	1808.8	42500	.00936	.0123	1465
2267.0	42/19	0.1928	0.1928	1.735	2142.0	49900	.00806	.0108	1594
2493.0	72/19	0.1655	0.1655	1.821	2356.9	50400	.00722	.0099	1687
2493.0	54/37	0.1655	0.1655	1.821	2354.5	57600	.00743	.0101	1670

+Ampacity based on 75° C conductor temperature, 25° C ambient temperature, with 2 ft. /sec. wind in the sun.

ACSS

Aluminum Conductor, Steel Supported.

APPLICATIONS

ACSS is used for overhead distribution and transmission lines. It is designed to operate continuously at elevated temperatures up to 250°C without loss of strength; it sags less than a comparable ACSR under electrical loadings; it is self-damping if prestretched during installation; and its final sags are not affected by long term creep of aluminum. The advantages make ACSS especially useful in reconductoring applications requiring increased current with existing tensions and clearances, new line applications where structures can be economized because of reduced conductor sag, new line applications requiring high emergency loadings, and lines where aeolian vibration is a problem.

SPECIFICATIONS

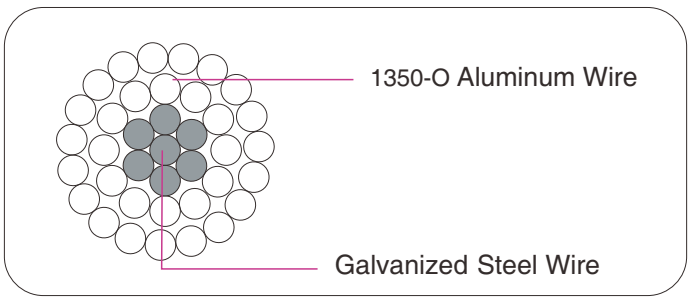
Huatong™ ACSS conductor meets or exceeds the following ASTM specifications:

- B 500 Metallic Coated Stranded Steel Core for Use in Overhead Electrical Conductors.
- B609 Aluminum 1350 Round Wire, Annealed and Intermediate Tempers, for Electrical Purposes.
- B802 Zinc-5% Aluminum-Mischmetal Alloy-Coated Steel Core Wire for Aluminum Conductors, Steel Reinforced(ACSR).
- B803 High-Strength Zinc-5% Aluminum-Mischmetal Alloy-Coated Steel Core Wire for Use in Overhead ElectricalConductors.
- B856 Concentric-Lay-Stranded Aluminum Conductors, Coated Steel Supported (ACSS).
- B958 Extra-High-Strength and Ultra-High-Strenght Class A Zinc-5% Aluminum-Mischmetal Alloy-Coated Steel Core Wire for Use in Overhead Electrical Conductors.

The strandings available are identical to those listed in ASTM specification B232.

CONSTRUCTION

ACSS is a composite concentric-lay stranded conductor. Steel strands form the central core of the conductor with two or more layers of aluminum 1350-O wire stranded around it. The steel core carries most or all of the mechanical load of the conductor due to the "O" temper (fully annealed or soft) aluminum. Steel core wires are protected from corrosion by a zinc-5% aluminum-mischmetal alloy coating. For aluminum-clad (AW) ACSS, please refer to the ACSS/AW catalog sheet. Corrosion protection should be selected to suit the environment to which the conductor



ACSS

Aluminum Conductor, Steel Supported.

ACSS

Code Word	Size (Kcmil)	Stranding (Al/St)	Diameter (in)				Weight Per 100ft (lb)			Rated Strength			Resistance ohms/1000ft		Ampacity at 200℃ (AMPS)
			Individual Wires		Steel Core	Complete Cable	Al	Steel	Total	Standard Strength lb	High* Strength lb	HS285** Strength lb	DC @ 20℃	AC @ 75℃	
			Al	Steel											
Partridge/ACSS	266.8	26/7	0.101	0.079	0.24	0.642	251	115.5	366.8	8880	9730	11400	0.062	0.076	812
Junco/ACSS	266.8	30/7	0.094	0.094	0.28	0.66	252	165.5	417.4	11700	13000	15200	0.062	0.076	822
Ostrich/ACSS	300	26/7	0.107	0.084	0.25	0.68	283	129.9	412.4	10000	10900	12800	0.055	0.068	877
Linnet/ACSS	336.4	26/7	0.114	0.089	0.27	0.72	317	145.7	462.5	11200	12300	14400	0.049	0.06	945
Oriole/ACSS	336.4	30/7	0.106	0.106	0.32	0.741	318	208.7	526.3	14800	16300	19100	0.049	0.06	957
Brant/ACSS	397.5	24/7	0.129	0.086	0.26	0.772	374	137	511.4	11000	12100	14100	0.042	0.051	1047
Ibis/ACSS	397.5	26/7	0.124	0.096	0.29	0.783	374	172.1	546.5	13000	14200	16500	0.042	0.051	1054
Lark/ACSS	397.5	30/7	0.115	0.115	0.35	0.806	375	246.5	621.9	17500	19300	22600	0.041	0.051	1068
Flicker/ACSS	477	24/7	0.141	0.094	0.28	0.846	449	164.4	613.6	13000	14200	16400	0.035	0.043	1180
Hawk/ACSS	477	26/7	0.135	0.105	0.32	0.858	449	206.5	655.8	15600	17100	19800	0.035	0.043	1188
Hen/ACSS	477	30/7	0.126	0.126	0.38	0.883	450	295.9	746.3	21000	22700	26700	0.034	0.042	1204
Dove/ACSS	556.5	26/7	0.146	0.114	0.34	0.927	524	240.9	765.1	18200	19900	23200	0.03	0.037	1315
Eagle/ACSS	556.5	30/7	0.136	0.136	0.41	0.953	525	345.2	870.6	24500	26500	31100	0.03	0.036	1331
Peacock/ACSS	605	24/7	0.159	0.106	0.32	0.953	570	208.5	778.3	16500	18100	20800	0.027	0.034	1379
Squab/ACSS	605	26/7	0.153	0.119	0.36	0.966	570	261.9	831.8	19700	21300	25200	0.027	0.034	1389
Wood Duck/ACSS	605	30/7	0.142	0.142	0.43	0.994	571	375.3	946.5	26000	28300	33300	0.027	0.033	1407
Teal/ACSS	605	30/19	0.142	0.085	0.43	0.994	571	367.4	938.6	26600	29300	34800	0.027	0.034	1406
Rook/ACSS	636	24/7	0.163	0.109	0.33	0.977	599	219.2	818.2	17300	19000	21900	0.026	0.032	1425
Grosbeak/ACSS	636	26/7	0.156	0.122	0.36	0.991	599	275.4	874.4	20700	22400	26000	0.026	0.032	1435
Scoter/ACSS	636	30/7	0.146	0.146	0.44	1.019	601	394.5	995	27400	29700	35000	0.026	0.032	1454
Egret/ACSS	636	30/19	0.146	0.087	0.44	1.019	601	386.3	986.8	28000	30900	36600	0.026	0.032	1453
Flamingo/ACSS	666.6	24/7	0.167	0.111	0.33	1	628	229.7	857.6	18200	19900	22900	0.025	0.031	1470
Gannet/ACSS	666.6	26/7	0.16	0.125	0.37	1.014	628	288.6	916.4	21700	23400	27300	0.025	0.031	1480
Stilt/ACSS	715.5	24/7	0.173	0.115	0.35	1.036	674	246.5	920.5	19500	21300	24600	0.023	0.029	1540
Starling/ACSS	715.5	26/7	0.166	0.129	0.39	1.051	674	309.8	983.7	23300	25200	29800	0.023	0.029	1550
Redwing/ACSS	715.5	30/19	0.154	0.093	0.46	1.081	676	434.6	1110	30800	34000	39800	0.023	0.028	1570
Cuckoo/ACSS	795	24/7	0.182	0.121	0.36	1.092	749	274	1023	21700	23300	26900	0.021	0.026	1650
Drake/ACSS	795	26/7	0.175	0.136	0.41	1.107	749	344.2	1093	25900	28000	32600	0.021	0.026	1662
Macaw/ACSS	795	42/7	0.138	0.076	0.23	1.055	749	108.7	857.5	11800	12600	14300	0.021	0.026	1621
Tern/ACSS	795	45/7	0.133	0.089	0.27	1.063	749	146.1	894.9	14200	15200	17400	0.021	0.026	1618
Condor/ACSS	795	54/7	0.121	0.121	0.36	1.092	749	274	1023	21700	23300	26900	0.021	0.027	1618
Mallard/ACSS	795	30/19	0.163	0.098	0.49	1.139	751	482.8	1233	34300	37900	44300	0.021	0.026	1683
Ruddy/ACSS	900	45/7	0.141	0.094	0.28	1.131	848	165.4	1013	15800	17000	19200	0.019	0.023	1755
Canary/ACSS	900	54/7	0.129	0.129	0.39	1.162	848	310.1	1158	24600	26400	30500	0.018	0.024	1756
Redbird/ACSS	954	24/7	0.199	0.133	0.4	1.196	899	328.7	1227	26000	28000	32300	0.017	0.022	1859
Rail/ACSS	954	45/7	0.146	0.097	0.29	1.165	899	175.3	1074	16700	18000	20400	0.018	0.022	1824
Towhee/ACSS	954	48/7	0.141	0.11	0.33	1.175	899	223.7	1122	19700	21300	24300	0.018	0.022	1842
Cardinal/ACSS	954	54/7	0.133	0.133	0.4	1.196	899	328.7	1227	26000	28000	32300	0.017	0.022	1825
Canvasback/ACSS	954	30/19	0.178	0.107	0.54	1.248	901	579.4	1480	41100	45400	53100	0.017	0.021	1897

ACSS

Aluminum Conductor, Steel Supported.

ACSS

Code Word	Size (Kcmil)	Stranding (Al/St)	Diameter (in)				Weight Per 100ft (lb)			Rated Strength			Resistance ohms/1000ft		Ampacity at 200℃ (AMPS)
			Individual Wires		Steel Core	Complete Cable	Al	Steel	Total	Standard Strength lb	High* Streng-th lb	HS285** Streng-th lb	DC @ 20℃	AC @ 75℃	
			Al	Steel											
Snowbird/ACSS	1034	42/7	0.157	0.087	0.26	1.203	973	141.3	1115	15400	16500	18500	0.016	0.02	1924
Ortolan/ACSS	1034	45/7	0.152	0.101	0.3	1.212	973	190	1163	18100	19500	22000	0.016	0.02	1921
Curlew/ACSS	1034	54/7	0.138	0.138	0.42	1.245	973	356.2	1330	28200	30300	35000	0.016	0.021	1924
Bluejay/ACSS	1113	45/7	0.157	0.105	0.31	1.258	1048	204.5	1253	19500	21100	23800	0.015	0.019	2017
Finch/ACSS	1113	54/19	0.144	0.086	0.43	1.292	1053	375.5	1429	30400	33200	38700	0.015	0.019	2015
Bunting/ACSS	1193	45/7	0.163	0.109	0.33	1.302	1123	219.2	1342	21400	23500	25400	0.014	0.018	2110
Pheasant/ACSS	1272	54/19	0.154	0.092	0.46	1.381	1204	429.2	1633	34100	37300	43000	0.013	0.017	2200
Dipper/ACSS	1351	45/7	0.173	0.116	0.35	1.386	1273	248.3	1521	23700	25500	28800	0.012	0.016	2289
Martin/ACSS	1351	54/19	0.158	0.095	0.47	1.424	1279	455.8	1735	36200	39600	45600	0.012	0.016	2288
Bobolink/ACSS	1431	45/7	0.178	0.119	0.36	1.427	1348	263	1611	25100	27000	30500	0.012	0.015	2375
Plover/ACSS	1431	54/19	0.163	0.098	0.49	1.465	1354	482.8	1837	38400	41900	48300	0.012	0.015	2375
Nuthatch/ACSS	1510	45/7	0.183	0.122	0.37	1.465	1422	277.5	1700	26500	28100	31800	0.011	0.014	2459
Parrot/ACSS	1510	54/19	0.167	0.1	0.5	1.505	1429	509.5	1939	40400	44200	51000	0.011	0.014	2460
Ratite/ACSS	1590	42/7	0.195	0.108	0.32	1.492	1498	217.4	1715	23400	25000	27900	0.011	0.014	2543
Lapwing/ACSS	1590	45/7	0.188	0.125	0.38	1.504	1498	292.2	1790	27900	29600	33500	0.011	0.014	2543
Falcon/ACSS	1590	54/19	0.172	0.103	0.51	1.544	1505	536.5	2041	42600	46600	53700	0.011	0.014	2545
Chukar/ACSS	1780	84/19	0.146	0.087	0.44	1.601	1685	386.1	2071	35400	38200	43900	0.009	0.012	2751
Mockingbird/ACSS	2035	72/7	0.168	0.112	0.34	1.681	1926	233.7	2159	27200	28900	32000	0.008	0.011	2960
Roadrunner/ACSS	2057	76/19	0.165	0.077	0.38	1.7	1947	298.3	2245	31700	33900	38300	0.008	0.011	2992
Bluebird/ACSS	2156	84/19	0.16	0.096	0.48	1.762	2041	467.6	2508	42100	45500	51700	0.008	0.01	3106
Kiwi/ACSS	2167	72/7	0.174	0.116	0.35	1.735	2051	248.9	2300	29000	30800	34100	0.008	0.01	3080
Thrasher/ACSS	2312	76/19	0.174	0.081	0.41	1.802	2188	335.3	2524	35600	38100	43000	0.007	0.01	3218
Joree/ACSS	2515	76/19	0.182	0.085	0.42	1.88	2380	364.7	2745	38700	41400	46800	0.007	0.009	3390

Notes:
(1) Data based on a nominal cable manufactured in accordance with ASTM B 856.
(2) Resistance and ampacity based on an aluminum conductivity of 63%, IACS at 20°C, and a steel conductivity of 8% IACS at 20°C.
(3) Ampacity based on a 200°C conductor temperature, 25°C ambient temperature, 2 ft/sec. wind, in sun, with an emissivity of 0.5 and a coefficient of solar absorption of 0.5, at sea level.
(4) Rated strength for standard strength core based on Class A Galfan coated steel core wire in accordance with ASTM B 802.
(5) Rated strength for high strength core based on Class A Galfan coated high strength steel core wire in accordance with B 803.
* Designated by "/HS" (e.g. Drake/ACSS/HS)
** Designated by "/HS285" (e.g. Drake/ACSS/HS285)

ACSR/AW

Aluminum Conductor. Aluminum-Clad Steel Reinforced.

APPLICATIONS

Used as bare overhead transmission and as primary and secondary distribution cable. ACSR/AW offers strength characteristics similar to ACSR, along with slightly greater ampacity and resistance to corrosion due to aluminum-cladding of the steel core wires.

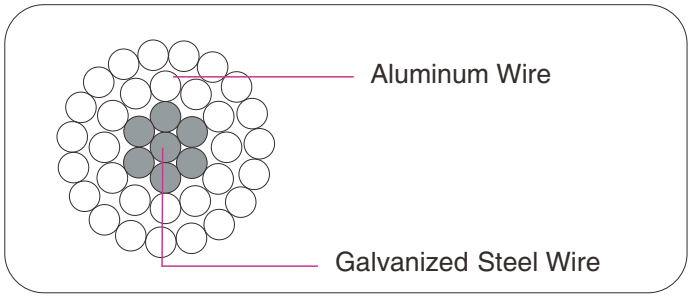
SPECIFICATIONS

Huatong™ ACSR/AW bare conductor meets or exceeds the following ASTM specifications:

- B230 Aluminum 1350-H19 Wire for Electrical Purposes.
- B502 Aluminum-Clad Steel Core Wire for Use in Overhead Electrical Aluminum Conductors.
- B549 Concentric-Lay Stranded Aluminum Conductors, Aluminum-Clad Steel Reinforced for Use in Overhead Electrical Conductors.

CONSTRUCTION

Aluminum 1350-H19 wires, concentrically stranded about an aluminum-clad steel core.



ACSR/AW

Aluminum Conductor. Aluminum-Clad Steel Reinforced

ACSR/AW

Code Word	Size (AWG or kcmil)	Strand-ing (Al/Aw)	Diameter (ins.)				Weight Per 1000 ft. (lbs)			Rated Strength (lbs.)	Resistance OHMS/1000 ft.		Allowable Ampacity + Amps
			Individual Wires		Aw Core	Comp. Cable	Al	Aw	Total		DC@ 20°C	AC@ 75°C	
			Al	Aw									
Swan/Aw	4	6/1	0.0834	0.0834	0.0834	0.25	39	16	55	1780	0.3917	0.4770	145
Swanate/Aw	4	7/1	0.0772	0.103	0.103	0.257	39	24	63	2280	0.3814	0.4642	148
Sparrow/Aw	2	6/1	0.1052	0.1052	0.1052	0.316	62	25	87	2760	0.2462	0.2997	194
Sparate/Aw	2	7/1	0.0974	0.1298	0.1298	0.325	62	38	100	3510	0.2396	0.2917	198
Robin/Aw	1	6/1	0.1181	0.1181	0.1181	0.354	78	31	109	3450	0.1950	0.2373	225
Raven/Aw	1/0	6/1	0.1327	0.1327	0.1327	0.398	99	39	138	4250	0.1547	0.1884	260
Quail/Aw	2/0	6/1	0.1489	0.1489	0.1489	0.447	124	50	174	5130	0.1227	0.1494	301
Pigeon/Aw	3/0	6/1	0.1672	0.1672	0.1672	0.502	156	63	219	6300	0.09747	0.1188	347
Penguin/Aw	4/0	6/1	0.1878	0.1878	0.1878	0.563	197	79	277	7690	0.07726	0.09422	402
Waxwing/Aw	266.8	18/1	0.1217	0.1217	0.1217	0.609	250	33	283	6820	0.06364	0.07776	451
Partridge/Aw	266.8	26/7	0.1013	0.0788	0.2363	0.642	251	98	349	10800	0.06169	0.07541	465
Ostrich/Aw	300.0	26/7	0.1074	0.0835	0.2506	0.68	283	110	393	12100	0.05489	0.06712	500
Merlin/Aw	336.4	18/1	0.1367	0.1367	0.1367	0.684	315	42	357	8540	0.05044	0.06175	522
Linnet/Aw	336.4	26/7	0.1137	0.0885	0.2654	0.72	317	123	440	13500	0.04897	0.05989	537
Oriole/Aw	336.4	30/7	0.1059	0.1059	0.3177	0.741	318	177	494	16700	0.04795	0.05861	547
Chickadee/Aw	397.5	18/1	0.1486	0.1486	0.1486	0.743	373	50	422	9780	0.04268	0.05230	580
Brant/Aw	397.5	24/7	0.1287	0.0858	0.2574	0.772	374	116	490	14100	0.04185	0.05124	592
Ibis/Aw	397.5	26/7	0.1236	0.0962	0.2885	0.783	374	146	520	15800	0.04144	0.05072	597
Lark/Aw	397.5	30/7	0.1151	0.1151	0.3453	0.806	375	209	584	19600	0.04059	0.04965	608
Pelican/Aw	477	18/1	0.1628	0.1628	0.1628	0.814	447	59	507	11500	0.03556	0.04344	651
Flicker/Aw	477	24/7	0.141	0.094	0.2819	0.846	449	139	589	16700	0.03487	0.04273	663
Hawk/Aw	477.0	26/7	0.1354	0.1053	0.316	0.858	449	175	624	18900	0.03453	0.04231	669
Hen/Aw	477.0	30/7	0.1261	0.1261	0.3783	0.883	450	251	701	23400	0.03382	0.04139	682
Osprey/Aw	556.5	18/1	0.1758	0.1758	0.1758	0.879	522	69	591	13200	0.03050	0.03749	715
Parakeet/Aw	556.5	24/7	0.1523	0.1015	0.3045	0.914	524	163	687	19300	0.02989	0.03667	731
Dove/Aw	556.5	26/7	0.1463	0.1138	0.3413	0.927	524	204	728	21900	0.02958	0.03627	737
Eagle/Aw	556.5	30/7	0.1362	0.1362	0.4086	0.953	525	293	818	26800	0.02899	0.03551	751
Peacock/Aw	605.0	24/7	0.1588	0.1058	0.3175	0.953	570	177	746	21000	0.02749	0.03377	770
Squab/Aw	605.0	26/7	0.1525	0.1186	0.3559	0.966	570	222	792	23600	0.02588	0.03341	777
Teal/Aw	605.0	30/19	0.142	0.0852	0.426	0.994	571	311	883	28500	0.02672	0.03274	791
Kingbird/Aw	636.0	18/1	0.188	0.188	0.188	0.94	596	79	675	15000	0.02667	0.03286	778
Rook/Aw	636.0	24/7	0.1628	0.1085	0.3256	0.977	599	186	785	22000	0.02616	0.03216	794
Grosbeak/Aw	636.0	26/7	0.1564	0.1216	0.3649	0.991	599	233	832	24800	0.02588	0.03179	801
Flamingo/Aw	666.6	24/7	0.1667	0.1111	0.3333	1	628	195	823	23100	0.02495	0.03069	818
Gannet/Aw	666.6	26/7	0.1601	0.1245	0.3736	1.014	628	245	872	26000	0.02470	0.03034	825
Starling/Aw	715.5	26/7	0.1659	0.129	0.3871	1.051	674	263	936	27500	0.02300	0.02830	863
Redwing/Aw	715.5	30/19	0.1544	0.0927	0.4633	1.081	676	368	1044	33400	0.02260	0.02777	878
Cuckoo/Aw	795.0	24/7	0.182	0.1213	0.364	1.092	749	232	981	27500	0.02093	0.02582	913
Drake/Aw	795	26/7	0.1749	0.136	0.408	1.107	749	292	1040	30500	0.02070	0.02549	922
Tem/Aw	795	45/7	0.1329	0.0886	0.2658	1.063	749	124	873	21500	0.02135	0.02638	896
Condor/Aw	795	54/7	0.1213	0.1213	0.364	1.092	749	232	981	27800	0.02091	0.02578	913
Mallard/Aw	795	30/19	0.1628	0.0977	0.4884	1.139	751	409	1160	37100	0.02033	0.02500	938
Ruddy/Aw	900	45/7	0.1414	0.0943	0.2828	1.131	848	140	988	24000	0.01886	0.02330	970
Canary/Aw	900	54/7	0.1291	0.1291	0.3873	1.162	848	263	1111	31000	0.01849	0.02286	986
Rail/Aw	954	45/7	0.1456	0.0971	0.2912	1.165	899	149	1047	25400	0.01779	0.02210	1003
Cardinal/Aw	954	54/7	0.1329	0.1329	0.3987	1.196	899	279	1177	32900	0.01744	0.02161	1022
Ortolan/Aw	1033.5	45/7	0.1515	0.101	0.3031	1.212	973	161	1134	27200	0.01641	0.02044	1054
Curlew/Aw	1033.5	54/7	0.1383	0.1383	0.415	1.245	973	302	1275	35200	0.01609	0.01997	1074
Bluejay/Aw	1113	45/7	0.1573	0.1048	0.3145	1.258	1048	173	1222	29300	0.01606	0.01905	1103
Pheasant/Aw	1272	54/19	0.1535	0.0921	0.4604	1.381	1204	364	1568	42400	0.01315	0.01646	1216
Bobblink/Aw	1431	45/7	0.1783	0.1189	0.3566	1.427	1348	223	1571	37600	0.01186	0.01503	1283
Lapwing/Aw	1590	45/7	0.188	0.1253	0.3759	1.504	1498	248	1745	41800	0.01069	0.01366	1365

+Conductor temperature of 75°C ambient temperature,25°C emissivity 0.5, wind 2 ft./sec., in sun

ACSR/AW

Aluminum Conductor. Aluminum-Clad Steel Reinforced

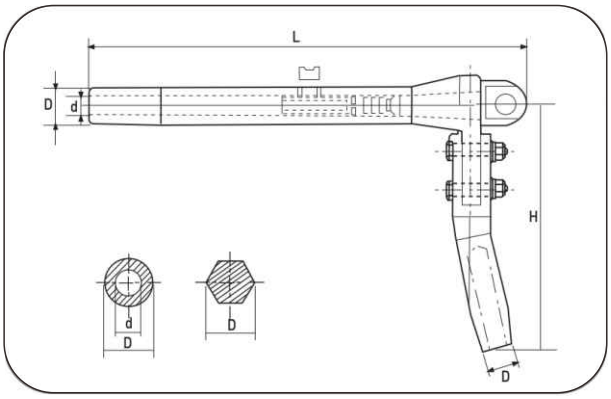
ACSR/AW

Code Word	Size (AWG or kcmil)	Strand-ing (Al/Aw)	Diameter (ins.)				Weight Per 1000 ft. (lbs)			Rated Strength (lbs.)	Resistance OHMS/1000 ft.		Allowable Ampacity + (Amps)
			Individual Wires		Aw Core	Comp. Cable	Al	Aw	Total		DC@ 20°C	AC@ 75°C	
			Al	Aw									
HIGH MECHANICAL STRENGTH													
Grouse/AW	80.0	8/1	0.1000	0.1670	0.1670	0.367	75.1	62.6	137.7	4,890	0.1942	0.2357	227
Petrel/AW	101.8	12/7	0.0921	0.0921	0.2763	0.460	96.0	133.9	229.9	9,910	0.1425	0.1736	281
Minorca/AW	110.8	12/7	0.0961	0.0961	0.2883	0.481	104.5	145.8	250.3	10,800	0.1326	0.1594	297
Leghorn/AW	134.6	12/7	0.1059	0.1059	0.3177	0.530	127.0	177.0	304.0	13,000	0.1078	0.1313	335
Guinea/AW	159.0	12/7	0.1151	0.1151	0.3453	0.576	150.0	209.1	359.1	15,300	0.09123	0.1112	372
Dotterel/AW	176.9	12/7	0.1214	0.1214	0.3642	0.607	166.8	232.7	399.5	16,900	0.08201	0.09988	398
Dorking/AW	190.8	12/7	0.1261	0.1261	0.3783	0.631	180.0	251.1	431.0	18,300	0.07601	0.09261	418
Brahma/AW	203.2	16/19	0.1127	0.0977	0.4885	0.714	191.7	411.0	602.7	27,100	0.0657	0.07994	464
Cochin/AW	211.3	12/7	0.1327	0.1327	0.3981	0.664	199.3	278.0	477.3	19,800	0.06863	0.08364	445

+Conductor temperature of 75°C ambient temperature,25°C emissivity 0.5, wind 2 ft./sec., in sun

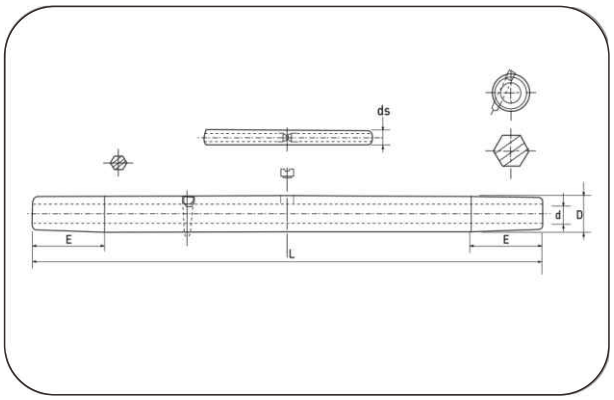
Conductor Fittings

Compression Type Strain Clamp



Application Conductor (mm²)		Dimension (mm)			
		L	D	d	H
TACSR (/AW)	120	400~440	25~35	16~20	270~290
	160	400~440	25~35	18~22	270~290
	200	460~500	30~40	20~24	290~330
	240	500~530	35~42	22~26	310~330
	330	520~560	40~45	24~29	320~340
	410	600~630	46~50	28~32	170~390
	520	640~670	50~55	31~35	370~390
	610	700~740	57~63	34~38	380~410
	680	700~740	62~67	35~38	400~420
	810	720~760	65~70	38~42	430~440
	1,160	800~830	73~78	46~50	530~550
	1,520	940~1,000	87~93	52~57	600~620

Compression Type Joint Sleeve



Application Conductor (mm²)		Dimension (mm)				
		L	D	d	H	ds
TACSR (/AW)	120	470~530	25~35	16~20	55~65	7~8
	160	470~530	25~35	18~22	55~65	8~9
	200	500~560	30~40	20~24	65~75	9~10
	240	570~630	33~43	22~26	70~80	10~11
	330	610~670	37~47	25~29	80~90	9~10.5
	410	710~770	43~53	28~32	90~100	10.5~11.7
	610	900~960	55~65	34~38	115~125	11~13
	680	850~910	60~70	35~38	125~135	9~10
	810	910~970	63~73	38~42	130~140	10~11
	1,160	1,070~1,130	63~73	46~50	135~145	13~14
	1,520	1,310~1,370	85~95	53~57	175~185	14.5~15.5

AAC/TW

All Aluminum Conductor. Trapezoidal Shaped Aluminum Strands.

APPLICATIONS

Shaped Wire Compact Concentric-Lay-Stranded Aluminum Conductor (AAC/TW) is designed for use as a bare overhead conductor. There are two designs of AAC/TW. One design gives an equal area of aluminum when compared to the standard AAC conductor sizes. The other design is conductor with overall outside diameters that are in fixed-increments. Use of this conductor in the equal area design allows comparable ampacity in a smaller diameter conductor when compared with standard AAC conductor. Use of this conductor in the fixed-increment diameter design allows more ampacity in an equal diameter conductor when compared with standard AAC conductor.

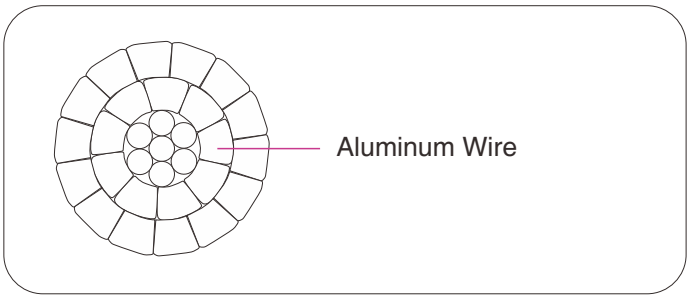
SPECIFICATIONS

Huatong™ AAC/TW conductor meets or exceeds ASTM specifications:

- B230 Aluminum 1350-H19 Wire for Electrical Purposes.
- B778 Shaped Wire Compact Concentric-Lay-Stranded Aluminum Conductors (AAC/TW).

CONSTRUCTION

Aluminum 1350-H19 trapezoidal shaped wires, concentrically stranded.



AAC/TW

All Aluminum Conductor. Trapezoidal Shaped Aluminum Strands

AAC/TW

AAC/TW CONDUCTORS AREA EQUAL TO STANDARD AAC SIZES									
Code Name	Size	No. of Wires	No. of Layers	Conductor Diameter (ins.)	Weight per 1000 ft. (lbs.)	Rated Strength (lbs.)	Resistance Ohms/1000 ft.		Allowable Ampacities+ (Amps)
							DC @ 25°C	AC @ 75°C	
Tulip/TW	336.4	17	2	0.612	315.2	6220	0.0514	0.0630	502
Canna/TW	397.5	17	2	0.661	372.4	7230	0.0435	0.0534	557
Cosmos/TW	477.0	17	2	0.720	446.9	8530	0.0363	0.0445	623
Zinnia/TW	500.0	17	2	0.736	468.4	8940	0.0346	0.0425	641
Mistletoe/TW	556.5	17	2	0.775	521.3	9950	0.0311	0.0383	685
Meadowsweet/TW	600.0	17	2	0.803	652.1	10700	0.0288	0.0355	718
Orchid/TW	636.0	17	2	0.825	595.8	11400	0.0272	0.0335	744
Verbena/TW	700.0	17	2	0.864	655.7	12500	0.0247	0.0305	789
Nasturtium/TW	750.0	17	2	0.893	702.6	13400	0.0230	0.0286	823
Arbutus/TW	795.0	17	2	0.919	744.7	13900	0.0217	0.0270	853
Cockscomb/TW	900.0	17	3	0.990	846.6	15800	0.0192	0.0239	924
Magnolia/TW	954.0	31	3	1.018	897.4	16700	0.0181	0.0226	957
Hawkweed/TW	1000.0	31	3	1.041	940.6	17500	0.0173	0.0216	984
Bluebell/TW	1033.5	31	3	1.057	972.2	18100	0.0167	0.0210	1004
Marigold/TW	1113.0	31	3	1.095	1047.0	19500	0.0155	0.0195	1049
Hawthorn/TW	1192.5	31	3	1.132	1122.0	20900	0.0145	0.0183	1094
Narcissus/TW	1272.0	31	3	1.168	1196.0	22300	0.0136	0.0173	1136
Columbine/TW	1351.5	31	3	1.202	1271.0	23700	0.0128	0.0163	1177
Carnation/TW	1431.0	31	3	1.236	1346.0	24600	0.0121	0.0155	1218
Coreopsis/TW	1590.0	49	4	1.315	1503.0	27300	0.0109	0.0141	1298
Jessamine/TW	1750.0	49	4	1.377	1654.0	30000	0.0099	0.0129	1371
Cowslip/TW	2000.0	49	4	1.468	1890.0	34500	0.0086	0.0115	1477
Lupine/TW	2500.0	71	5	1.648	2369.0	42400	0.0070	0.0097	1661
Trillium/TW	3000.0	71	5	1.799	2843.0	50900	0.0058	0.0084	1822
Logan/TW	322.5	17	2	0.60	302.1	5960	0.0536	0.0657	489
Wheeler/TW	449.4	17	2	0.70	421.0	8030	0.0385	0.0472	601
Robson/TW	595.8	17	2	0.80	558.2	10700	0.0290	0.0358	715
McKinley/TW	761.5	17	2	0.90	713.3	13400	0.0227	0.0281	831
Rainier/TW	918.8	31	3	1.00	864.3	16100	0.0188	0.0235	935
Helens/TW	1123.1	31	3	1.10	1056.0	19700	0.0154	0.0194	1055
Baker/TW	1346.8	31	3	1.20	1267.0	23600	0.0128	0.0164	1175
Hood/TW	1583.2	34	3	1.30	1489.0	27200	0.0109	0.0141	1292
Whitney/TW	1812.7	49	4	1.40	1713.0	31100	0.0095	0.0125	1398
Powell/TW	2093.6	49	4	1.50	1978.0	35900	0.0083	0.0112	1508
Jefferson/TW	2388.1	52	4	1.60	2256.0	40100	0.0073	0.0100	1618
Shasta/TW	2667.2	71	5	1.70	2528.0	45200	0.0065	0.0092	1718
Adams/TW	3006.2	71	5	1.80	2848.0	51000	0.0059	0.0085	1818

+Ampacity calculated assuming: ambient 25° C, conductor 75° C wind 2 ft. /sec. , sun.

ACSS/AW

Aluminum Conductor.Aluminum-Clad Steel Supported.

APPLICATIONS

ACSS/AW is used for overhead distribution and transmission lines. It is designed to operate continuously at elevated temperatures up to 250°C without loss of strength; it sags less under emergency electrical loadings than ACSR/AW; it is self-damping if prestretched during installation; and its final sags are not affected by long term creep of aluminum. The advantages make ACSS/AW especially useful in reconductoring applications requiring increased current with existing tensions and clearances, new line applications where structures can be economized because of reduced conductor sag, new line applications requiring high emergency loadings, and lines where aeolian vibration is a problem. ACSS/AW offers strength characteristics similar to ACSS, along with slightly greater ampacity and resistance to corrosion due to aluminum-cladding of the steel core wires.

SPECIFICATIONS

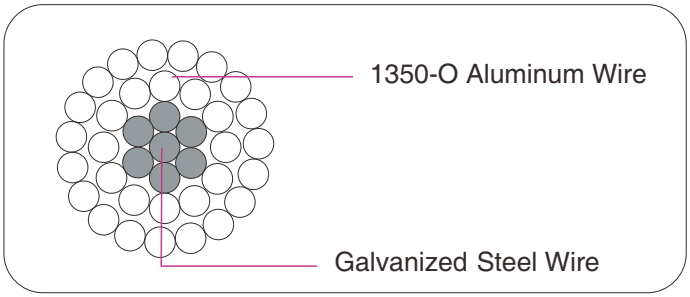
Huatong™ ACSS/AW conductor meets or exceeds the following ASTM specifications:

- B609 Aluminum 1350 Round Wire, Annealed and Intermediate Tempers, for Electrical Purposes.
- B502 Aluminum-Clad Steel Core Wire for Aluminum conductors, Aluminum-Clad Steel Reinforced.
- B856 Concentric-Lay-Stranded Aluminum Conductors, Coated Steel Supported (ACSS).

The strandings available are identical to those listed in ASTM specification B232.

CONSTRUCTION

ACSS/AW is a composite concentric-lay-stranded conductor. Steel strands form the central core of the conductor with one or more layers of aluminum 1350-O wire stranded around it. The steel core carries most or all of the mechanical load of the conductor due to the "O" (fully annealed or soft) temper aluminum. Steel core wires are protected from corrosion by an aluminum coating.



ACSS/AW

Aluminum Conductor.Aluminum-Clad Steel Supported.

ACSS/AW

Code Word	Size (Kcmil)	Stranding (Al/St)	Diameter (in)				Weight Per 100ft (lb)			Rated Strength (lb)	Resistance ohms/1000ft		Ampacity at 200℃ (AMPS)
			Individual Wires		Steel Core	Complete Cable	Al	Steel	Total		DC @ 20℃	AC @ 75℃	
			Al	Steel									
Junco/ACSS/AW	266.8	30/7	0.0943	0.0943	0.2829	0.66	252	140	392	11200	0.0589	0.0723	841
Ostrich/ACSS/AW	300	26/7	0.1074	0.0835	0.2506	0.68	283	110	393	9360	0.0534	0.0656	891
Linnet/ACSS/AW	336.4	26/7	0.1137	0.0885	0.2654	0.72	317	123	440	10500	0.0476	0.0585	960
Oriole/ACSS/AW	336.4	30/7	0.1059	0.1059	0.3177	0.741	318	177	494	14200	0.0467	0.0573	979
Brant/ACSS/AW	397.5	24/7	0.1287	0.0858	0.2574	0.772	374	116	490	10400	0.0407	0.0501	1061
Ibis/ACSS/AW	397.5	26/7	0.1236	0.0962	0.2885	0.783	374	146	520	12400	0.0403	0.0496	1071
Lark/ACSS/AW	397.5	30/7	0.1151	0.1151	0.3453	0.806	375	209	584	16700	0.0395	0.0486	1092
Flicker/ACSS/AW	477	24/7	0.141	0.094	0.2819	0.846	449	139	589	12500	0.0339	0.0418	1195
Hawk/ACSS/AW	477	26/7	0.1354	0.1053	0.316	0.858	449	175	624	14900	0.0336	0.0413	1207
Hen/ACSS/AW	477	30/7	0.1261	0.1261	0.3783	0.883	450	251	701	20100	0.0329	0.0405	1231
Parakeet/ACSS/AW	556.5	24/7	0.1523	0.1015	0.3045	0.914	524	163	687	14600	0.0291	0.0359	1323
Dove/ACSS/AW	556.5	26/7	0.1463	0.1138	0.3413	0.927	524	204	728	17500	0.0288	0.0355	1336
Eagle/ACSS/AW	556.5	30/7	0.1362	0.1362	0.4086	0.953	525	293	818	22900	0.0282	0.0348	1362
Peacock/ACSS/AW	605	24/7	0.1588	0.1058	0.3175	0.953	570	177	746	15900	0.0267	0.033	1397
Squab/ACSS/AW	605	26/7	0.1525	0.1186	0.3559	0.966	570	222	792	19000	0.0265	0.0327	1411
Wood Duck/ACSS/AW	605	30/7	0.142	0.142	0.426	0.994	571	318	889	24400	0.026	0.032	1439
Teal/ACSS/AW	605	30/19	0.142	0.0852	0.426	0.994	571	311	883	25000	0.026	0.032	1438
Rook/ACSS/AW	636	24/7	0.1628	0.1085	0.3256	0.977	599	186	785	16700	0.0255	0.0314	1444
Grosbeak/ACSS/AW	636	26/7	0.1564	0.1216	0.3649	0.991	599	233	832	19900	0.0252	0.0311	1458
Scoter/ACSS/AW	636	30/7	0.1456	0.1456	0.4368	1.019	600	334	935	25100	0.0247	0.0305	1487
Egret/ACSS/AW	636	30/19	0.1456	0.0874	0.4368	1.019	600	327	928	26300	0.0247	0.0305	1486
Flamingo/ACSS/AW	666.6	24/7	0.1667	0.1111	0.3333	1	628	195	823	17500	0.0243	0.03	1489
Gannet/ACSS/AW	666.6	26/7	0.1601	0.1245	0.3736	1.014	628	245	872	20900	0.024	0.0297	1504
Stilt/ACSS/AW	715.5	24/7	0.1727	0.1151	0.3453	1.036	674	209	883	18800	0.0226	0.028	1559
Starling/ACSS/AW	715.5	26/7	0.1659	0.129	0.3871	1.051	674	263	936	22000	0.0224	0.0277	1576
Redwing/ACSS/AW	715.5	30/19	0.1544	0.0927	0.4633	1.081	676	368	1044	29500	0.022	0.0272	1605
Cuckoo/ACSS/AW	795	24/7	0.182	0.1213	0.364	1.092	749	232	981	20900	0.0204	0.0252	1671
Drake/ACSS/AW	795	26/7	0.1749	0.136	0.408	1.107	749	292	1040	24400	0.0202	0.025	1688
Macaw/ACSS/AW	795	42/7	0.1376	0.0764	0.2293	1.055	749	92	841	11400	0.0209	0.026	1630
Tern/ACSS/AW	795	45/7	0.1329	0.0886	0.2658	1.063	749	124	873	13500	0.0208	0.026	1620
Condor/ACSS/AW	795	54/7	0.1213	0.1213	0.364	1.092	749	232	981	15800	0.0204	0.026	1639
Mallard/ACSS/AW	795	30/19	0.1628	0.0977	0.4884	1.139	751	409	1160	32900	0.0198	0.0245	1721
Ruddy/ACSS/AW	900	45/7	0.1414	0.0943	0.2828	1.131	848	140	988	15300	0.0183	0.023	1767
Canary/ACSS/AW	900	54/7	0.1291	0.1291	0.3873	1.162	848	263	1111	23200	0.018	0.023	1779
Rail/ACSS/AW	954	45/7	0.1456	0.0971	0.2912	1.165	899	149	1047	16200	0.0173	0.0218	1836
Towhee/ACSS/AW	954	48/7	0.141	0.1097	0.329	1.175	899	190	1088	19000	0.0172	0.0214	1858
Cardinal/ACSS/AW	954	54/7	0.1329	0.1329	0.3987	1.196	899	279	1177	24600	0.017	0.0217	1848
Canvasback/ACSS/AW	954	30/19	0.1783	0.107	0.535	1.248	901	491	1392	39400	0.0165	0.0205	1939
Snowbird/ACSS/AW	1033.5	42/7	0.1569	0.0871	0.2614	1.203	973	120	1093	14800	0.0161	0.0202	1934
Curlew/ACSS/AW	1033.5	54/7	0.1383	0.1383	0.415	1.245	973	302	1275	26100	0.0157	0.0201	1948
Bluejay/ACSS/AW	1113	45/7	0.1573	0.1048	0.3145	1.258	1048	173	1222	18900	0.0148	0.0088	2031
Finch/ACSS/AW	1113	54/19	0.1436	0.0861	0.4307	1.292	1053	318	1372	28800	0.0146	0.0188	2040
Bunting/ACSS/AW	1192.5	45/7	0.1628	0.1085	0.3256	1.302	1123	186	1309	20300	0.0138	0.0176	2124
Grackle/ACSS/AW	1192.5	54/19	0.1486	0.0892	0.4458	1.337	1129	341	1470	30800	0.0137	0.0176	2135
Bittern/ACSS/AW	1272	45/7	0.1681	0.1121	0.3362	1.345	1198	198	1396	21600	0.013	0.0165	2215
Pheasant/ACSS/AW	1272	54/19	0.1535	0.0921	0.4604	1.381	1204	364	1568	32800	0.0128	0.0165	2227

ACSS/AW

Aluminum Conductor.Aluminum-Clad Steel Supported.

ACSS/AW

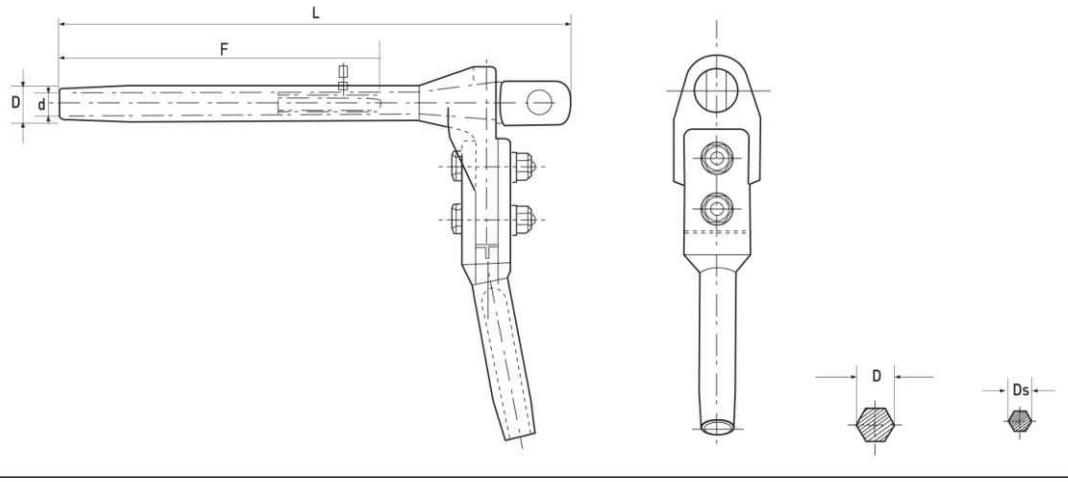
Code Word	Size (Kcmil)	Stranding (Al/St)	Diameter (in)				Weight Per 100ft (lb)			Rated Strength (lb)	Resistance ohms/1000ft		Ampacity at 200℃ (AMPS)
			Individual Wires		Steel Core	Complete Cable	Al	Steel	Total		DC @ 20℃	AC @ 75℃	
			Al	Steel									
Dipper/ACSS/AW	1351	45/7	0.1733	0.1155	0.3465	1.386	1272	210	1483	23000	0.0122	0.0156	2304
Martin/ACSS/AW	1351	54/19	0.1582	0.0949	0.4745	1.424	1279	386	1665	34900	0.012	0.0156	2307
Bobolink/ACSS/AW	1431	45/7	0.1783	0.1189	0.3566	1.427	1348	223	1571	24300	0.0115	0.0148	2391
Plover/ACSS/AW	1431	54/19	0.1628	0.0977	0.4884	1.465	1354	409	1764	36900	0.0114	0.0148	2405
Nuthatch/ACSS/AW	1510	45/7	0.1832	0.1221	0.3664	1.465	1422	235	1657	25700	0.0109	0.0141	2476
Parrot/ACSS/AW	1510	54/19	0.1672	0.1003	0.5017	1.505	1429	432	1861	38900	0.0108	0.0141	2491
Lapwing/ACSS/AW	1590	45/7	0.188	0.1253	0.3759	1.504	1498	248	1745	27000	0.0104	0.0134	2560
Falcon/ACSS/AW	1590	54/19	0.1716	0.103	0.5148	1.544	1505	455	1960	41100	0.0102	0.0134	2576
Chukar/ACSS/AW	1780	84/19	0.1456	0.0873	0.4367	1.601	1685	327	2012	33600	0.0093	0.012	2772
Mockingbird/ACSS/AW	2034.5	72/7	0.1681	0.1121	0.3362	1.681	1926	198	2124	26500	0.0082	0.0109	2972
Roadrunner/ACSS/AW	2057	76/19	0.1645	0.0768	0.3839	1.7	1947	253	2200	30300	0.0081	0.0108	3007
Bluebird/ACSS/AW	2156	84/19	0.1602	0.0961	0.4806	1.762	2041	396	2437	40700	0.0077	0.0102	3130
Kiwi/ACSS/AW	2167	72/7	0.1735	0.1157	0.347	1.735	2051	211	2262	28200	0.0077	0.0104	3092
Thrasher/ACSS/AW	2312	76/19	0.1744	0.0814	0.407	1.802	2188	284	2472	34100	0.0072	0.0097	3235
Joree/ACSS/AW	2515	76/19	0.1819	0.0849	0.4245	1.88	2380	309	2689	37100	0.0066	0.0091	3407

Notes:
(1) Data based on a nominal cable manufactured in accordance with ASTM B 856.
(2) Resistance and ampacity based on an aluminum conductivity of 63% IACS at 20°C, and an aluminum-clad steel conductivity of 20.3% IACS at 20°C.
(3) Ampacity based on a 200°C conductor temperature, 25°C ambient temperature, 2 ft/sec wind, in sun, with emissivity of 0.5 and a coefficient of solar absorption of 0.5, at sea level.
(4) Rated strengths based on aluminum-clad steel core wire in accordance with ASTM B 502.

Conductor Fittings

Compression Type Strain Clamp

Application Conductor		Dimension (mm)				
		L	D	d	F	Ds
Hi-STACIR / AW STACIR (/AW)	160mm²	470 ~ 520	36 ~ 40	18 ~ 22	160 ~ 170	16 ~ 20
	240mm²	505 ~ 560	40 ~ 44	22 ~ 26	175 ~ 185	20 ~ 24
	330mm²	530 ~ 600	46 ~ 50	25 ~ 29	190 ~ 200	20 ~ 24
	410mm²	620 ~ 680	50 ~ 54	31 ~ 35	195 ~ 205	22 ~ 26
	480mm²	670 ~ 720	50 ~ 54	29 ~ 33	195 ~ 205	17 ~ 21



Bare Copper Wire and Cable

Bare Copper Conductor. Solid and Stranded .

APPLICATIONS

Solid and stranded (classes AA and A) bare copper are suitable for overhead transmission and distribution applications.Stranded conductor of greater flexibility (classes B and C) are suitable for uninsulated hook up, jumpers, and grounds in electrical construction. Soft Drawn copper is unilay construction.

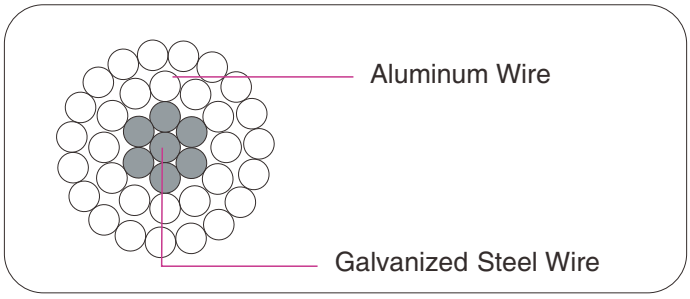
SPECIFICATIONS

Huatong™ bare copper wire and cable meets or exceeds the following ASTM specifications:

- B-1 Hard-Drawn Copper Wire.
- B-2 Medium-Hard Copper Wire.
- B-3 Soft or Annealed Copper Wire.
- B-8 Concentric-Lay-Stranded Hard, Medium-Hard or Soft Copper Conductor.
- B-33 Tinned Conductors
- B-787 19 Wire Combination Unilay-Stranded Soft copper wire.

CONSTRUCTION

Bare copper, solid or stranded. Available in tempers hard, medium-hard, or soft. Stranded conductors are concentrically stranded in hard and medium-hard tempers and are Combination Unilay stranded in the soft-drawn temper.



Bare Copper Wire and Cable

Bare Copper Conductor. Solid and Stranded .

Bare Copper

Size (AWG)	Weight (lbs/1000 ft)	Diameter (mils)	Circular Mil Area (mils)	Hard Drawn		Medium-Hard Drawn		Soft-Drawn (Annealed)		Allowable Ampacity+
				Rated Strength >(lbs)	DC Resistance (ohms/1000ft) @ 20℃	Rated Strength (lbs)	DC Resistance (ohms/1000ft) @ 20℃	Rated Strength (lbs)	DC Resistance (ohms/1000ft) @20℃	
SOLID										
14	12.4	64.1	4110	213.5	2.626	166.6	2.613	124.2	2.525	--
13	15.7	72	5180	268	2.083	208.8	2.072	156.6	2.003	--
12	19.8	80.8	6530	336.9	1.652	261.2	1.643	197.5	1.588	--
11	24.9	90.7	8230	422.9	1.31	327.6	1.303	249	1.26	--
10	31.4	101.9	10380	529.2	1.039	410.4	1.033	314	0.999	--
9	39.6	114.4	13090	661.2	0.824	514.2	0.82	380.5	0.792	--
8	50	128.5	16510	826	0.653	643.9	0.65	479.8	0.628	95
7	63	144.3	20820	1030	0.518	806.6	0.515	605	0.498	105
6	79.4	162	26240	1280	0.411	1010	0.409	762.9	0.395	125
5	100.2	181.9	33090	1591	0.326	1265	0.324	961.9	0.313	145
4	126.3	204.3	41740	1970	0.258	1584	0.257	1213	0.249	170
3	159.3	229.4	52620	2439	0.205	1984	0.204	1530	0.197	195
2	200.9	257.6	66360	3003	0.163	2450	0.162	1929	0.156	225
1	253.3	289.3	83690	3688	0.129	3024	0.128	2432	0.124	260

+Ampacity based on 75 conductor temperature; 25°C ambient temperature; 2 ft./sec. wind in sun.D57

Bare Copper

Size (AWG)	Strand-ing	Stranding Class	Weight (lbs/ 1000ft)	Diameter (mils)		Hard Drawn		Medium-Hard Drawn		Soft-Drawn (Annealed)		Allow-able Amp-acity+
				Individual Wires	Complete Conductor	Rated Strength (lbs)	DC Resistance (ohms/1000ft) @ 20℃	Rated Strength (lbs)	DC Resistance (ohms/1000ft) @20℃	Rated Strength (lbs)	DC Resistance (ohm/1000ft) @20℃	
STRANDED												
8	7	B	51	49	146	777	0.6663	610	0.6629	499	0.6408	95
6	7	B	81	61	184	1228	0.4191	959	0.4169	794	0.403	130
4	7	A, B	128.9	77	232	1938	0.2636	1505	0.2622	1320	0.2534	170
3	7	A, B	162.5	87	260	2433	0.209	1885	0.2079	1670	0.201	200
2	7	A, B	204.9	97	292	3050	0.166	2360	0.165	2110	0.1578	230
1	7	A	258.4	109	328	3801	0.1316	2955	0.1309	2552	0.1252	265
1/0	7	A, AA	326.1	123	368	4752	0.1042	3705	0.1037	3221	0.1002	310
2/0	7	A, AA	410.9	138	414	5926	0.08267	4640	0.08224	4062	0.07949	355
2/0	19	B	410.9	84	418	6690	0.08267	4765	0.08224	4024	0.07949	355
3/0	7	A, AA	518.1	155	464	7366	0.06556	5812	0.06522	5118	0.06304	410
4/0	7	A, AA	653.3	174	522	9154	0.05199	7278	0.05172	6459	0.04999	480
4/0	19	B	653.3	106	528	9617	0.05199	7479	0.05172	6453	0.04999	480
250	19	A	771.9	115	574	11360	0.044	8836	0.04378	7627	0.04231	530
250	37	B	771.9	82	575	11600	0.044	8952	0.04378	7940	0.04231	530
300	19	A	926.2	126	628	13510	0.03667	10530	0.03648	9160	0.03526	590
350	19	A	1080.6	136	679	15590	0.03143	12200	0.03127	10680	0.03022	650
500	37	A, B	1543.8	116	814	22510	0.022	17550	0.02189	15240	0.02116	810
600	37	A, AA	1852.5	127	891	27020	0.01834	21060	0.01825	18300	0.01763	910
750	61	A, B	2315.6	111	998	34090	0.01467	26510	0.01459	22890	0.0141	1040
1000	61	A, B	3087.5	128	1152	45030	0.011	35100	0.01094	30500	0.01058	1240

+Ampacity based on 75°C conductor temperature; 25°C ambient temperature; 2 ft./sec. wind in sun.

ACSR/TW, ACSS/TW

Aluminum Conductor, Steel Reinforced.
Trapezoidal Shaped Aluminum Strands.

APPLICATIONS

Shaped Wire Compact Concentric-Lay-Stranded Aluminum Conductor, Steel-Reinforced(ACSR/TW) is designed for use as a bare overhead conductor. There are two designs of ACSR/TW. One design gives an equal area of aluminum when compared to the standard ACSR conductor sizes. The other design gives an overall outside diameter equal to standard ACSR conductor sizes. Use of this conductor in the equal area design allows equal ampacity in a smaller diameter conductor when compared with standard ACSR conductor. Use of this conductor in the equal diameter design allows more ampacity in an equal diameter conductor when compared with standard ACSR conductor.

SPECIFICATIONS

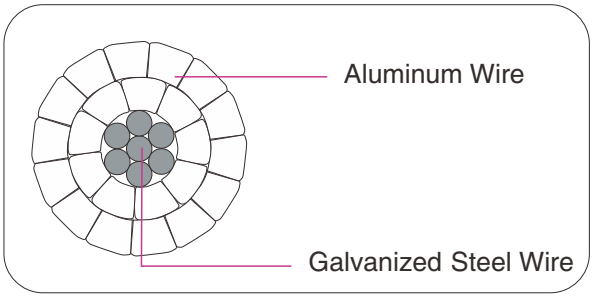
Huatong ™ACSR/TW conductor meets or exceeds the following ASTM specifications:
• B779 Shaped Wire Compact Concentric-Lay-Stranded Aluminum Conductors, Coated-Reinforced (ACSR/TW).

Huatong ™ACSS/TW conductor meets or exceeds the following ASTM specifications:
• B857 Shaped Wire Compact Concentric-Lay-Stranded Aluminum Conductors, Coated-Reinforced (ACSS/TW).

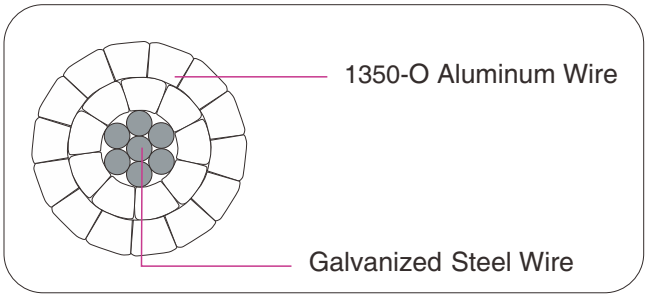
CONSTRUCTION

Aluminum alloy 1350-H19 trapezoidal shaped wires, concentrically stranded about a steel core. Core wire for ACSR/TW is available with class A, B, or C galvanizing; "aluminized" aluminum coated (AZ); or aluminum-clad (AW 1). Additional corrosion protection is available through the application of grease to the core or infusion of the complete cable with grease.

ACSR/TW



ACSS/TW



ACSR/TW, ACSS/TW

Aluminum Conductor, Steel Reinforced.
Trapezoidal Shaped Aluminum Strands.

ACSR/TW, ACSS/TW

Shaped Wire Concentric-Lay Compact Aluminum Conductors Steel Reinforced (ACSR/TW) Area Equal to Standard ACSR Sizes																
Code Word	Size (kcmil)	Type No.	Cross Sectional Area (in2)			Stranding		Diameter (in)		Weight (lbs/1000 ft)			Rated Breaking Strength (lbs)	Resistance (ohms/mile)		Ampacity (amps)
			Aluminum	Total	No of Layers of Aluminum	No of Aluminum Wires	No.& Diameter Individual Steel Wire	Steel Core	Complete Cable	Alum	Steel	Total	Standard Strength	DC@ 20° C	AC@ 75° C	@75° C
Partridge/TW	266. 8	16	0. 2094	0. 2435	2	14	7 x 0.0788	0. 2364	0. 595	250. 5	115. 6	366. 1	11200	0. 3356	0. 4103	449
Linnet/TW	336. 4	16	0. 2642	0. 3037	2	16	7 x 0.0885	0. 2655	0. 667	316. 1	145. 8	461. 9	14000	0. 2662	0. 3255	519
Oriole/TW	336. 4	23	0. 2642	0. 3259	2	16	7 x 0.1059	0. 3177	0. 693	317. 6	208. 7	526. 4	17100	0. 2650	0. 3239	525
Merlin/TW	336. 4	6	0. 2642	0. 2788	2	14	1 x 0.1367	0. 1367	0. 630	315. 5	49. 5	365. 0	8560	0. 0510	0. 0625	508
Flicker/TW	447. 0	13	0. 3747	0. 4233	2	18	7 x 0.0940	0. 2820	0. 776	447. 8	164. 5	612. 3	17200	0. 0357	0. 0437	641
Hawk/TW	447. 0	16	0. 3746	0. 4356	2	18	7 x 0.1054	0. 3162	0. 790	448. 7	206. 4	655. 1	19400	0. 0356	0. 0435	645
Hen/TW	447. 0	23	0. 3745	0. 4619	2	20	7 x 0.1261	0. 3783	0. 820	450. 2	296. 0	746. 1	23600	0. 1869	0. 2287	653
Parakeet/TW	556. 5	13	0. 4371	0. 4937	2	18	7 x 0.1015	0. 3045	0. 835	523. 2	191. 7	714. 9	20000	0. 0306	0. 0375	706
Dove/TW	556. 5	16	0. 4371	0. 5083	2	20	7 x 0.1138	0. 3414	0. 850	523. 4	241. 1	764. 5	22600	0. 0305	0. 0374	711
Swift/TW	636. 0	3	0. 4995	0. 5133	3	27	1 x 0.1329	0. 1329	0. 850	599. 2	46. 8	646. 0	13500	0. 0272	0. 0335	750
Rook/TW	636. 0	13	0. 4995	0. 5643	2	20	7 x 0.1085	0. 3255	0. 893	597. 0	219. 2	816. 2	22900	0. 0268	0. 0329	766
Scoter/TW	636. 0	23	0. 4994	0. 6159	2	22	7 x 0.1456	0. 4368	0. 942	600. 3	394. 6	954. 9	30400	0. 1402	0. 1718	782
Grosbeak/TW	795. 0	16	0. 4995	0. 5808	2	20	7 x 0.1216	0. 3648	0. 909	601. 3	275. 8	877. 3	25400	0. 0267	0. 0327	772
Tern/TW	795. 0	7	0. 6244	0. 6675	2	17	7 x 0.0886	0. 2658	0. 960	745. 9	146. 1	892. 0	21000	0. 0215	0. 0266	869
Puffin/TW	795. 0	10	0. 6244	0. 6919	2	18	7 x 0.1108	0. 3324	0. 980	746. 9	228. 4	975. 3	25900	0. 0215	0. 0264	876
Condor/TW	795. 0	13	0. 6244	0. 7053	2	20	7 x 0.1203	0. 3639	0. 993	747. 2	273. 8	1021. 0	28200	0. 0214	0. 0264	880
Drake/TW	795. 0	16	0. 6244	0. 7261	2	20	7 x 0.1360	0. 4080	1. 010	747. 0	344. 3	1091. 3	31800	0. 0213	0. 0263	887
Canary/TW	900. 0	13	0. 7066	0. 7983	2	20	7 x 0.1291	0. 3873	1. 055	844. 6	310. 2	1154. 8	31600	0. 0998	0. 1233	951
Phoenix/TW	954. 0	5	0. 7493	0. 7876	3	30	7 x 0.0837	0. 2511	1. 044	901. 6	130. 4	1032. 0	23700	0. 0181	0. 0224	967
Rail/TW	954. 0	7	0. 7493	0. 7493	3	32	7 x 0.0971	0. 2913	1. 061	898. 6	175. 5	1074. 1	25900	0. 0180	0. 0224	973

Ampacity based on referenced conductor temperature,25° C ambient temperature,2 ft/sec wind.in sun.with an emmisivity of 0.5 and a coefficient of solar absorption of 0.5,at sea level.

ACSR/TW, ACSS/TW

Aluminum Conductor, Steel Reinforced.
Trapezoidal Shaped Aluminum Strands.

ACSR/TW, ACSS/TW

Shaped Wire Concentric-Lay Compact Aluminum Conductors Steel Reinforced (ACSR/TW) Area Equal to Standard ACSR Sizes																	
Code Word	Size (kcmil)	Type No.	Cross Sectional Area (in2)		Stranding			Diameter (in)		Weight (lbs/1000 ft)			Rated Breaking Strength (lbs)	Resistance (ohms/mile)		Ampacity (amps)
			Aluminum	Total	No of Layers of Aluminum	No of Aluminum Wires	No. & Diameter Individual Steel Wire	Steel Core	Complete Cable	Alum	Steel	Total	Standard Strength	DC @ 20°C	AC @ 75°C	@75°C
Cardinal/TW	954.0	13	0.7493	0.8464	2	20	7 x 0.1329	0.3987	1.080	895.5	328.8	1224.3	33500	0.0178	0.0221	985
Snowbird/TW	1033.5	5	0.8117	0.8534	3	30	7 x 0.0871	0.2613	1.089	973.8	141.2	1115.0	25700	0.0167	0.0208	1017
Ortolan/TW	1033.5	7	0.8117	0.8678	3	32	7 x 0.1010	0.3030	1.102	975.2	189.8	1165.0	28100	0.0167	0.0207	1021
Curlew/TW	1033.5	13	0.8117	0.9169	2	22	1 x 0.1383	0.4149	1.132	970.1	356.1	1326.2	36300	0.0165	0.0204	1036
Avocet/TW	1113.0	5	0.8742	0.9191	3	30	7 x 0.0904	0.2712	1.129	1048.9	152.1	1201.0	27500	0.0155	0.0193	1063
Bluejay/TW	1113.0	7	0.8742	0.9347	3	33	7 x 0.1049	0.3147	1.143	1052.2	204.8	1257.0	30300	0.0155	0.0193	1069
Finch/TW	1113.0	13	0.8742	0.9851	3	38	19 x 0.0862	0.4310	1.185	1052.6	376.4	1429.0	39100	0.0154	0.0191	1084
Oxbird/TW	1192.5	5	0.9366	0.9848	3	30	7 x 0.0936	0.2808	1.170	1122.9	163.1	1286.0	29500	0.0144	0.0180	1111
Bunting/TW	1192.5	7	0.9366	1.0013	3	34	7 x 0.1085	0.3255	1.181	1123.2	219.6	1342.8	32400	0.0144	0.0181	1114
Grackle/TW	1192.5	13	0.9366	1.0554	3	38	19 x 0.0892	0.4460	1.225	1127.8	402.9	1530.7	41900	0.0144	0.0179	1130
Scissortail/TW	1272.0	5	0.9991	1.0505	3	30	7 x 0.0967	0.2901	1.203	1198.0	174.0	1372.0	31400	0.0135	0.0170	1152
Bittern/TW	1272.0	7	0.9990	1.0681	3	38	7 x 0.1121	0.3363	1.224	1197.6	234.9	1423.5	34600	0.0135	0.0170	1159
Pheasant/TW	1272.0	13	0.9990	1.1256	3	39	19 x 0.0921	0.4605	1.260	1201.0	429.5	1630.5	44100	0.0135	0.0168	1176
Dipper/TW	1351.5	7	1.0615	1.1348	3	35	7 x 0.1155	0.3465	1.256	1274.0	248.0	1522.0	36700	0.0127	0.0160	1202
Martin/TW	1351.5	13	1.0615	1.1959	3	42	19 x 0.0949	0.4745	1.300	1276.0	456.0	1732.0	46800	0.0127	0.0159	1219
Bobolink/TW	1431.0	7	1.1236	1.2017	3	36	7 x 0.1189	0.3567	1.291	1350.0	263.0	1613.0	38900	0.0120	0.0152	1243
Plover/TW	1431.0	13	1.1236	1.2664	3	44	19 x 0.0977	0.4885	1.337	1353.0	483.0	1836.0	49600	0.0120	0.0150	1262
Lapwing/TW	1590.0	7	1.2488	1.3351	3	36	7 x 0.1253	0.3759	1.358	1497.6	292.3	1789.9	42200	0.0183	0.0138	1323
Falcon/TW	1590.0	13	1.2488	1.4071	3	42	19 x 0.1030	0.5150	1.410	1502.8	537.2	2040.0	55100	0.0108	0.0136	1345
Chukar/TW	1780.0	8	1.3986	1.5120	3	38	19 x 0.0874	0.4370	1.445	1680.6	386.8	2067.4	50700	0.0096	0.0124	1420
Bluebird/TW	2156.0	8	1.0934	1.8312	4	64	19 x 0.0961	0.4805	1.608	2047.0	468.0	2515.0	61100	0.0080	0.0105	1586

Ampacity based on referenced conductor temperature, 25°C ambient temperature, 2 ft/sec wind, in sun, with an emmisivity of 0.5 and a coefficient of solar absorption of 0.5, at sea level.

ACSR/TW, ACSS/TW

Aluminum Conductor, Steel Reinforced.
Trapezoidal Shaped Aluminum Strands.

ACSR/TW, ACSS/TW

Shaped Wire Concentric-Lay Compact Aluminum Conductors Steel Reinforced (ACSR/TW) Area Equal to Standard ACSR Sizes																
Code Word	Size (kcmil)	Type No.	Cross Sectional Area (in2)		Stranding			Diameter (in)		Weight (lbs/1000 ft)			Rated Breaking Strength (lbs)	Resistance (ohms/mile)		Ampacity (amps)
			Aluminum	Total	No of Layers of Aluminum	No of Aluminum Wires	No. & Diameter Individual Steel Wire	Steel Core	Complete Cable	Alum	Steel	Total	Standard Strength	DC @ 20°C	AC @ 75°C	@75°C
Monongahela/TW	405.1	6	0.3181	0.3362	2	14	1 x 0.1520	0.1520	0.680	379.8	61.2	441.0	10200	0.0423	0.0519	569
Mohawk/TW	571.7	13	0.4490	0.5074	2	18	7 x 0.1030	0.3090	0.850	537.0	197.5	734.5	20700	0.0298	0.0365	718
Calumet/TW	565.3	16	0.4439	0.5165	2	20	7 x 0.1146	0.3438	0.860	531.2	244.5	775.7	22900	0.0300	0.0368	718
Mystic/TW	666.6	13	0.5236	0.5914	2	20	7 x 0.1244	0.3732	0.913	630.4	230.3	860.7	24000	0.0255	0.0314	790
Oswego/TW	664.8	16	0.5221	0.6072	2	20	7 x 0.1244	0.3732	0.927	628.7	288.7	917.4	26600	0.0255	0.0313	794
Nechako/TW	768.9	3	0.6039	0.6220	3	27	1 x 0.1520	0.1520	0.930	720.7	61.2	781.9	16400	0.0255	0.0278	843
Maumee/TW	768.2	13	0.6034	0.6819	2	20	7 x 0.1195	0.3585	0.977	721.1	265.9	987.0	27700	0.0222	0.0273	862
Wabash/TW	762.8	16	0.5992	0.6966	2	20	7 x 0.1331	0.3993	0.990	716.7	329.8	1046.5	30500	0.0222	0.0274	863
Kettle/TW	957.2	7	0.7518	0.8038	3	32	7 x 0.0973	0.2919	1.060	902.8	176.2	1079.0	26000	0.0180	0.0223	974
Fraser/TW	946.7	10	0.7436	0.8168	3	35	7 x 0.1154	0.3462	1.077	894.0	248.0	1142.0	29600	0.0180	0.0223	978
Columbia/TW	966.2	13	0.7589	0.8573	2	21	7 x 0.1338	0.4014	1.092	908.0	333.0	1241.0	34000	0.0176	0.0218	993
Suwannee/TW	959.6	16	0.7537	0.8762	2	22	7 x 0.1493	0.4479	1.110	901.6	415.0	1316.6	37000	0.0177	0.0218	996
Cheyenne/TW	1168.1	5	0.9175	0.9646	3	30	7 x 0.0926	0.2778	1.155	1100.4	159.6	1260.0	28900	0.0148	0.0185	1095
Genesee/TW	1158.0	7	0.9095	0.9733	3	34	7 x 0.1078	0.3234	1.165	1092.0	216.0	1308.0	31600	0.0149	0.0186	1095
Hudson/TW	1158.4	13	0.9098	1.0281	2	24	7 x 0.1467	0.4401	1.196	1087.3	400.7	1488.0	39600	0.0147	0.0183	1111
Catawba/TW	1272.0	5	0.9991	1.0505	3	30	7 x 0.0967	0.2901	1.203	1198.0	174.0	1372.0	31400	0.0135	0.0170	1152
Nelson/TW	1257.1	7	0.9874	1.0557	3	35	7 x 0.1115	0.3345	1.213	1185.7	231.3	1417.0	34200	0.0137	0.0172	1150
Yukon/TW	1233.6	13	0.9689	1.0925	3	38	19 x 0.0910	0.4550	1.245	1166.7	419.3	1586.0	42900	0.0139	0.0173	1154
Truckee/TW	1372.5	5	1.0780	1.1334	3	30	7 x 0.1004	0.3012	1.248	1293.4	187.6	1481.0	33400	0.0126	0.0159	1206

Ampacity based on referenced conductor temperature, 25°C ambient temperature, 2 ft/sec wind, in sun, with an emmisivity of 0.5 and a coefficient of solar absorption of 0.5, at sea level.

ACSR/TW, ACSS/TW

Aluminum Conductor, Steel Reinforced.
Trapezoidal Shaped Aluminum Strands.

ACSR/TW, ACSS/TW

Shaped Wire Concentric-Lay Compact Aluminum Conductors Steel Reinforced (ACSR/TW) Area Equal to Standard ACSR Sizes																
Code Word	Size (kcmil)	Type No.	Cross Sectional Area (in2)		Stranding			Diameter (in)		Weight (lbs/1000 ft)			Rated Breaking Strength (lbs)	Resistance (ohms/mile)		Ampacity (amps)
			Aluminum	Total	No of Layers of Aluminum	No of Aluminum Wires	No. & Diameter Individual Steel Wire	Steel Core	Complete Cable	Alum	Steel	Total	Standard Strength	DC @ 20°C	AC @ 75°C	@75°C
Mackenzie/TW	1359.7	7	1.0679	1.1418	3	36	7 x 0.1559	0.3477	1.259	1280.0	250.0	1530.0	36900	0.0127	0.0159	1206
Thames/TW	1334.6	13	0.3480	1.1809	3	38	19 x 0.0944	0.4720	1.290	1260.1	451.2	1711.3	46300	0.0128	0.0160	1210
St. Croix/TW	1467.8	5	1.1529	1.2124	3	33	7 x 0.1041	0.3123	1.292	1383.0	202.0	1585.0	35800	0.0117	0.0149	1256
Miramichi/TW	1455.3	7	1.1430	1.2222	3	36	7 x 0.1200	0.3600	1.302	1372.0	268.0	1640.0	39200	0.0118	0.0150	1256
Merrimack/TW	1433.6	13	1.1250	1.2677	3	39	19 x 0.0978	0.4890	1.340	1355.8	484.3	1840.1	49700	0.0119	0.0150	1264
Platte/TW	1569	5	1.2323	1.2957	3	33	7 x 0.1074	0.3222	1.334	1478.0	215.0	1693.0	38200	0.011	0.0140	1306
Potomac/TW	1557.4	7	1.2232	1.3079	3	36	7 x 0.1241	0.3723	1.350	1466.9	288.1	1755.0	41900	0.0111	0.0140	1307
Rio Grande/TW	1533.3	13	1.2043	1.3571	3	38	19 x 0.1012	0.5060	1.380	1449.0	519.0	1968.0	53200	0.0112	0.0141	1316
Schuylkill/TW	1657.4	7	1.3020	1.3920	3	36	7 x 0.1280	0.3840	1.386	1563.0	305.0	1868.0	44000	0.0104	0.0133	1356
Pecos/TW	1622.0	13	1.2739	1.4429	3	39	19 x 0.1064	0.5320	1.420	1533.7	573.2	2106.9	57500	0.0106	0.0133	1363
Pee Dee/TW	1758.6	7	1.3810	1.4770	3	38	7 x 0.1319	0.3957	1.427	1656.4	323.9	1980.3	46700	0.0098	0.0126	1404
James/TW	1730.6	13	1.3590	1.5314	3	34	19 x 0.1075	0.5375	1.470	1636.0	585.0	2221.0	59400	0.0099	0.0126	1415
Athabaska/TW	1949.6	7	1.5312	1.6377	3	44	7 x 0.1392	0.4176	1.504	1838.0	361.0	2199.0	51900	0.0088	0.0115	1491
Cumberland/TW	1926.9	13	1.5134	1.7049	3	42	19 x 0.1133	0.5665	1.550	1821.0	650.0	2471.0	65300	0.0089	0.0114	1507
Powder/TW	2153.8	8	1.6912	1.8290	4	64	19 x 0.0961	0.4805	1.602	2042.5	396.1	2438.6	61100	0.008	0.0105	1584
Santee/TW	2627.3	8	2.0630	2.2268	4	64	19 x 0.1062	0.5310	1.761	2491.5	571.1	3062.6	74500	0.0066	0.0089	1768

Ampacity based on referenced conductor temperature, 25°C ambient temperature, 2 ft/sec wind, in sun, with an emmisivity of 0.5 and a coefficient of solar absorption of 0.5, at sea level.

HUATONG
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