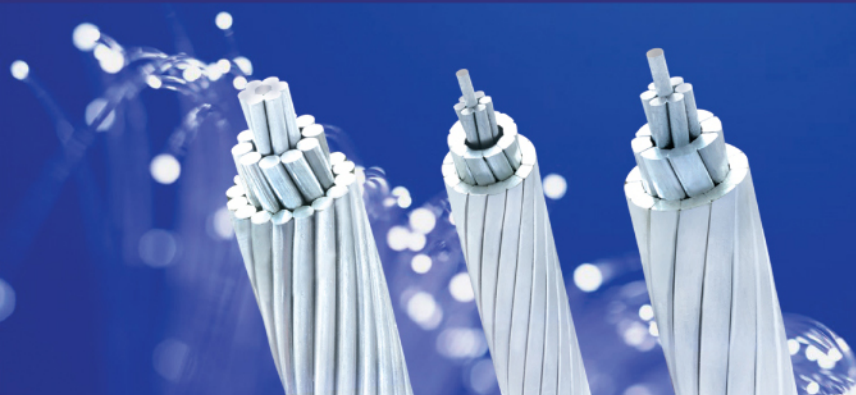




# Bare Overhead Conductor



**ZTT Bare Aluminum  
Conductors Catalog  
per ANSI/ASTM**

**Volume I**

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## Conductor Data Sheet

### Concentric Lay Stranded Aluminum 1350 Conductors ( AAC )

Code Name	Cross Section	Copper Equivalent	Number of Wires	Diameter of Aluminum Wire	Nonimal Weight	Rated Strength	Maximum DC Resistance at 20°C
	AWG or MCM	AWG or MCM		in.	lb/1000ft	kips	Ω/1000 ft
Pansy	1	3	7	0.109	78.4	1.64	0.207
Iris	2	4	7	0.097	92.6	1.35	0.261
Rose	4	6	7	0.077	39.1	0.881	0.416
Poppy	1/0	2	7	0.123	98.9	1.99	0.164
Aster	2/0	1	7	0.138	124.8	2.51	0.13
Phlox	3/0	1/0	7	0.155	157.2	3.04	0.103
Oxlip	4/0	2/0	7	0.174	198.4	3.83	0.082
Valerian	250	157.2	19	0.115	234.3	4.66	0.0694
Sneezewort	250	157.2	7	0.189	234.4	4.52	0.0694
Laurel	266.8	3/0	19	0.119	250.1	4.97	0.0652
Daisy	266.6	3/0	7	0.195	250.2	4.83	0.0652
Peony	300	188.7	19	0.126	281.4	5.48	0.0594
Tulip	336.4	4/0	19	0.133	315.5	6.15	0.051
Daffodil	350	220	19	0.136	327.9	6.39	0.0495
Canna	397.5	250	19	0.145	372.9	7.11	0.0441
Goldentuft	450	283	19	0.154	421.8	7.89	0.0385
Syringa	477	300	37	0.114	446.8	8.69	0.036
Cosmos	477	300	19	0.158	446.8	8.36	0.036
Hyacinth	500	314	37	0.116	468.3	9.11	0.035
Zinnia	500	314	19	0.162	468.5	8.76	0.035
Dahlia	556.5	350	19	0.171	521.4	9.75	0.031
Mistletoe	556.5	350	37	0.123	521.3	9.94	0.031
Meadowsweet	600	377	37	0.127	562	10.7	0.029
Orchid	636	400	37	0.131	596	11.4	0.027
Heuchera	650	409	37	0.133	609.8	11.6	0.027
Flag	1	3	7	0.109	78.4	1.64	0.207
Verbena	2	4	7	0.097	92.6	1.35	0.261

AAC



# Conductor Data Sheet

## Concentric Lay Stranded Aluminum 1350 Conductors ( AAC )

Code Name	Cross Section	Copper Equivalent	Number of Wires	Diameter of Aluminum Wire	Nonimal Weight	Rated Strength	Maximum DC Resistance at 20°C
	AWG or MCM	AWG or MCM		in.	lb/1000ft	kips	Ω/1000 ft
Nasturtium	715.5	450	61	0.108	671	13.1	0.024
Violet	715.5	450	37	0.139	671	12.8	0.024
Cattail	750	472	61	0.111	703.2	13.5	0.0231
Petunia	750	472	37	0.142	703.2	13.1	0.0231
Lilac	795	500	61	0.114	745.7	14.3	0.022
Arbutus	795	500	37	0.147	745.3	13.9	0.022
Snapdragon	900	566	61	0.121	844	15.9	0.0193
Cockscomb	900	566	37	0.156	844	16.4	0.0193
Goldenrod	954	600	61	0.125	894.8	16.9	0.018
Magnolia	954	600	37	0.161	894.5	16.4	0.018
Camellia	1000	629	61	0.128	936.8	17.7	0.0173
Hawkweed	1000	629	37	0.164	937.3	17.2	0.0173
Larkspur	1033.5	650	61	0.13	969.2	18.3	0.017
Bluebell	1033.5	650	37	0.167	968.4	17.7	0.017
Marigold	1113	700	61	0.135	1044	19.7	0.016
Hawthorn	1192.5	750	61	0.14	1117	21.1	0.015
Narcissus	1272	800	61	0.144	1192	22	0.014
Columbine	1351.5	850	61	0.149	1266	23.4	0.013
Carnation	1431	900	61	0.153	1342	24.3	0.012
Gladiolus	1510.5	950	61	0.157	1417	25.6	0.011
Coreopsis	1590	1000	61	0.161	1489	27	0.01
Jessamine	1750	1101	61	0.169	1641	29.7	0.01
Cowslip	2000	1260	91	0.148	1873	34.2	0.009
Sagebrush	2250	1370	91	0.157	2128	37.7	0.008
Lupine	2500	1570	91	0.166	2365	41.9	0.00701
Bitterroot	2750	1680	91	0.174	2602	46.1	0.0062

AAC



## Conductor Data Sheet

### All Aluminum Alloy 6201-T81 Conductors ( AAAC )

Code Name	Cross Section	Copper Equivalent	Number of Wires	Diameter of Single Wire	Nonimal Weight	Rated Strength	Maximum DC Resistance at 20°C
	AWG or MCM	AWG or MCM		in.	lb/1000ft	kips	Ω/1000 ft
Alton	48.69	4	7	0.0834	45.4	1.76	0.4139
Ames	77.47	2	7	0.1052	72.24	2.8	0.2601
Azusa	123.3	1/0	7	0.1327	114.9	4.27	0.1635
Anaheim	155.4	2/0	7	0.149	144.9	5.39	0.1297
Amherst	195.7	3/0	7	0.1672	182.5	6.79	0.103
Alliance	246.9	4/0	7	0.1878	230.2	8.56	0.08162
Butte	312.8	266.8	19	0.1283	291.6	10.51	0.06443
Canton	394.5	336.4	19	0.1441	367.9	13.31	0.05107
Cairo	465.4	397.5	19	0.1565	433.9	15.6	0.0433
Darien	559.5	477	19	0.1716	521.7	18.82	0.03602
Elgin	652.6	556.5	19	0.1853	608.3	21.91	0.03089
Flint	740.8	636	37	0.1415	690.8	24.4	0.0272
Greeley	927.2	795	37	0.1583	864.6	30.51	0.02173
/	1077.4	954	61	0.1329	1005	35.02	0.0187
/	1165.1	1033.5	61	0.1382	1086	37.9	0.0173
/	1259.6	1113	61	0.1437	1175	41.01	0.016
/	1348.8	1192.5	61	0.1487	1258	43.9	0.01494
/	1439.2	1272	61	0.1536	1342	46.8	0.014

AAAC



# Conductor Data Sheet

## Aluminum Conductors Steel Reinforced ( ACSR )

Code Name	Cross Section	Stranding Design Aluminum/Steel	Diameter of Aluminum Wires	Diameter of Steel Wire	Nominal O. D. of Conductor	Nonimal Weight	Rated Strength	Maximum DC Resistance at 20°C
	AWG or MCM		in.	in.	in.	lb/1000ft	kips	Ω/1000 ft
Robin	1	6/1	0.1181	0.1181	0.354	36.02	3.55	0.2055
Sparrow	2	6/1	0.1052	0.1052	0.316	91.2	2.85	0.2590
Swan	4	6/1	0.0834	0.0834	0.25	57.35	1.86	0.4122
/	5	6/1	0.0743	0.0743	0.223	45.51	1.49	0.5193
Raven	1/0	6/1	0.1327	0.1327	0.398	145.2	4.38	0.1628
Quail	2/0	6/1	0.1489	0.1489	0.447	182.8	5.3	0.1293
Pigeon	3/0	6/1	0.1672	0.1672	0.502	230.5	6.62	0.1025
Penguin	4/0	6/1	0.1878	0.1878	0.563	290.8	8.35	0.0813
Waxwing	266.8	18/1	0.1217	0.1217	0.609	289.1	6.9	0.0648
Partridge	266.8	26/7	0.1013	0.0788	0.642	366.9	11.3	0.0651
Ostrich	300	26/7	0.1074	0.0835	0.68	412.2	12.7	0.0579
Merlin	336.4	18/1	0.1367	0.1367	0.684	364.8	8.7	0.0514
Linnet	336.4	26/7	0.1137	0.0884	0.72	462	14.1	0.0517
Oriole	336.4	30/7	0.1059	0.1059	0.68	526.4	17.3	0.0518
Chickadee	397.5	18/1	0.1486	0.1486	0.743	431	9.9	0.0435
Brant	397.5	24/7	0.1287	0.0858	0.772	511.4	14.6	0.0437
Ibis	397.5	26/7	0.1236	0.0961	0.783	546	16.3	0.0437
Lark	397.5	30/7	0.1151	0.1151	0.806	621.8	20.3	0.0438
Pelican	477	18/1	0.1628	0.1628	0.814	517.3	11.8	0.0362
Flicker	477	24/7	0.141	0.094	0.846	613.9	17.2	0.0364
Hawk	477	26/7	0.1354	0.1053	0.858	655.3	19.5	0.0364
Hen	477	30/7	0.1261	0.1261	0.883	746.4	23.8	0.0365
Osprey	5565	18/1	0.1758	0.1758	0.879	603.3	13.7	0.0311
Parakeet	5565	24/7	0.1523	0.1015	0.914	716.1	19.8	0.0312
Dove	5565	26/7	0.1463	0.1138	0.927	765.2	22.6	0.0312
Eagle	5565	30/7	0.1362	0.1362	0.953	870.7	27.8	0.0313

ACSR



## Conductor Data Sheet

### Aluminum Conductors Steel Reinforced ( ACSR )

Code Name	Cross Section	Stranding Design Aluminum/Steel	Diameter of Aluminum Wires	Diameter of Steel Wire	Nominal O.D. of Conductor	Nonimal Weight	Rated Strength	Maximum DC Resistance at 20 °C
	AWG or MCM		in.	in.	in.	lb/1000ft	kips	Ω/1000 ft
Peacock	605	24/7	0.1588	0.1059	0.953	778.8	21.6	0.0287
Squab	605	26/7	0.1525	0.1186	0.966	831.3	24.3	0.0287
Wood Duck	605	30/7	0.142	0.142	0.994	946.5	28.9	0.0288
Teal	605	30/19	0.142	0.0852	0.994	938.6	30	0.0288
Kingbird	636	18/1	0.188	0.188	0.94	689.9	15.7	0.0272
Swift	636	36/1	0.1329	0.1329	0.93	642.8	13.8	0.0272
Rook	636	24/7	0.1628	0.1085	0.977	818.2	22.6	0.0273
Grosbeak	636	26/7	0.1564	0.1216	0.99	874.2	25.2	0.0273
Scoter	636	30/7	0.1456	0.1456	1.019	995.1	30.4	0.0274
Egret	636	30/19	0.1456	0.0874	1.019	987.2	31.5	0.0274
Flamingo	666.6	24/7	0.1667	0.1111	1	857.9	23.7	0.0260
Gannet	666.6	26/7	0.1601	0.1245	1.014	916.2	26.4	0.0261
Stilt	715.5	24/7	0.1727	0.1151	1.036	921	25.5	0.0243
Starling	715.5	26/7	0.1659	0.129	1.051	983.7	28.4	0.0243
Redwing	715.5	30/19	0.1544	0.0926	1.081	1109.3	34.6	0.0243
Coot	795	36/1	0.1486	0.1486	1.04	803.6	16.8	0.0217
Cuckoo	795	24/7	0.182	0.1213	1.092	1023	27.9	0.0218
Drake	795	26/7	0.1749	0.136	1.108	1093	31.5	0.0218
Tern	795	45/7	0.1329	0.0886	1.063	895	22.1	0.0219
Condor	795	54/7	0.1213	0.1213	1.092	1022	28.2	0.0219
Mallard	795	30/19	0.1628	0.0977	1.14	1233.9	38.4	0.0219
Ruddy	900	45/7	0.1414	0.0943	1.131	1013	24.4	0.0193
Canary	900	54/7	0.1291	0.1291	1.162	1158	31.9	0.0193
Catbird	954	36/1	0.1628	0.1628	1.14	964	19.8	0.0181
Rail	954	45/7	0.1456	0.0971	1.165	1074	25.9	0.0182
Cardinal	954	54/7	0.1329	0.1329	1.196	1227.1	33.8	0.0182

ACSR



# Conductor Data Sheet

## Aluminum Conductors Steel Reinforced ( ACSR )

Code Name	Cross Section	Stranding Design Aluminum/Steel	Diameter of Aluminum Wires	Diameter of Steel Wire	Nominal O. D. of Conductor	Nonimal Weight	Rated Strength	Maximum DC Resistance at 20°C
	AWG or MCM		in.	in.	in.	lb/1000ft	kips	Ω/1000 ft
Tanager	1033.5	36/1	0.1694	0.1694	1.186	1044	21.4	0.0167
Ortolan	1033.5	45/7	0.1515	0.101	1.212	1163	27.7	0.0168
Curlew	1033.5	54/7	0.1383	0.1383	1.245	1329	36.6	0.0168
Bluejay	1113	45/7	0.1573	0.1049	1.259	1254	29.8	0.0156
Finch	1113	54/19	0.1436	0.0862	1.293	1430	39.1	0.0157
Bunting	1192.5	45/7	0.1628	0.1085	1.302	1342	32	0.0146
Grackle	1192.5	54/19	0.1486	0.0892	1.338	1531	41.9	0.0146
Skylark	1272	36/1	0.188	0.188	1.316	1286	26.4	0.0136
Bittern	1272	45/7	0.1681	0.1121	1.345	1432	34.1	0.0137
Pheasant	1272	54/19	0.1535	0.0921	1.382	1634	43.6	0.0137
Dipper	1351.5	45/7	0.1733	0.1155	1.386	1521	36.2	0.0129
Martin	1351.5	54/19	0.1582	0.0949	1.424	1735	46.3	0.0129
Bobolink	1431	45/7	0.1783	0.1189	1.427	1611	38.3	0.0121
Plover	1431	54/19	0.1628	0.0977	1.465	1838	49.1	0.0122
Nuthatch	1510.5	45/7	0.1832	0.1221	1.466	1700	40.1	0.0115
Parrot	1510.5	54/19	0.1672	0.1003	1.505	1938	51.7	0.0116
Lapwing	1590	45/7	0.188	0.1253	1.504	1790	42.2	0.0109
Falcon	1590	54/19	0.1716	0.103	1.545	2042	54.5	0.0110
Chukar	1780	84/19	0.1456	0.0874	1.602	2072	51	0.0098
Bluebird	2156	84/19	0.1602	0.0961	1.762	2508	60.3	0.0081
Kiwi	2167	72/7	0.1735	0.1157	1.735	2301	49.8	0.0081
Thrasher	2312	76/19	0.1744	0.0814	1.802	2523	56.7	0.0076

ACSR





# Conductor Data Sheet

## Aluminum Conductors -Aluminum Clad Steel Reinforced ( ACSR / AW )

Code Name	Cross Section	Stranding Design Aluminum/ACS	Diameter of Aluminum Wires	Diameter of ACS Wire	Nominal Diameter of Conductor	Nonimal Weight	Rated Strength	Maximum DC Resistance at 20°C
	AWG or MCM		in.	in.	in.	lbs/1000ft	kips	Ω/1000 ft
Robin	1	6/1	0.1181	0.1181	0.354	110	3.44	0.1952
Sparrow	2	6/1	0.1052	0.1052	0.316	87	2.77	0.2461
Swan	4	6/1	0.0834	0.0834	0.250	55	1.78	0.3917
Turkey	6	6/1	0.0661	0.0661	0.198	34	1.14	0.6231
Patrel	1/0	12/7	0.0921	0.0921	0.461	230	9.89	0.1978
Raven	2/0	6/1	0.1327	0.1327	0.398	138	4.22	0.1546
Quail	2/0	6/1	0.1489	0.1489	0.447	174	5.07	0.1228
Pigeon	3/0	6/1	0.1672	0.1672	0.502	219	6.29	0.0974
Penguin	4/0	6/1	0.1878	0.1878	0.563	277	7.84	0.0772
Minorca	110.8	12/7	0.0961	0.0961	0.481	250	10.77	0.1312
Leghorn	134.6	12/7	0.1059	0.1059	0.530	304	13.00	0.1081
Guinea	159	12/7	0.1151	0.1151	0.576	359	15.28	0.0915
Dotterel	176.9	12/7	0.1214	0.1214	0.607	400	16.90	0.0822
Dorking	190.8	12/7	0.1261	0.1261	0.631	431	18.23	0.0762
Cochin	211.3	12/7	0.1327	0.1327	0.664	477	19.73	0.0688
partridge	266.8	26/7	0.1013	0.0788	0.641	350	10.82	0.0619
Waxwing	266.8	18/1	0.1217	0.1217	0.609	283	6.75	0.0639
Ostrich	300	26/7	0.1074	0.0835	0.680	393	12.34	0.0551
Oriole	336.4	30/7	0.1059	0.1059	0.741	495	16.77	0.0481
Linnet	336.4	26/7	0.1137	0.0884	0.720	440	13.44	0.0491
Merlin	336.4	18/1	0.1367	0.1367	0.683	358	8.45	0.0506
Lark	397.5	30/7	0.1151	0.1151	0.806	585	19.61	0.0407
Ibis	397.5	26/7	0.1236	0.0961	0.783	520	15.68	0.0416
Brant	397.5	24/7	0.1287	0.0858	0.772	491	13.95	0.0420
Chickadee	397.5	18/1	0.1486	0.1486	0.743	423	9.61	0.0428
Flicker	477	24/7	0.141	0.094	0.846	589	16.75	0.0350
Pelican	477	18/1	0.1628	0.1628	0.814	507	11.43	0.0357
Hawk	477	26/7	0.1354	0.1053	0.857	625	19.10	0.0347
Hen	477	30/7	0.1261	0.1261	0.883	702	23.27	0.0340
Osprey	556.5	18/1	0.1758	0.1758	0.879	592	13.53	0.0306
parakeet	556.5	24/7	0.1523	0.1015	0.913	688	19.24	0.0300
Dove	556.5	26/7	0.1463	0.1138	0.926	729	21.98	0.0297
Eagle	556.5	30/7	0.1362	0.1362	0.953	819	26.66	0.0291
Wood duck	605	30/7	0.142	0.142	0.994	890	28.45	0.0268
Teal	605	30/19	0.142	0.0852	0.994	884	28.52	0.0268

ACSR / AW



# Conductor Data Sheet

## Aluminum Conductors -Aluminum Clad Steel Reinforced ( ACSR / AW )

Code Name	Cross Section	Stranding Design Aluminum/ACS	Diameter of Aluminum Wires	Diameter of ACS Wire	Nominal Diameter of Conductor	Nonimal Weight	Rated Strength	Maximum DC Resistance at 20°C
	AWG or MCM		in.	in.	in.	lbs/1000ft	kips	Ω/1000 ft
Kingbird	636	18/1	0.188	0.188	0.940	677	15.47	0.0268
Rock	636	24/7	0.1628	0.1085	0.976	786	21.99	0.0263
Grosbeak	636	26/7	0.1564	0.1216	0.990	833	24.77	0.0260
Scoter	636	30/7	0.1456	0.1456	1.019	936	29.90	0.0255
Egret	636	30/19	0.1456	0.0874	1.019	929	30.00	0.0255
Flamingo	666.6	24/7	0.1667	0.1111	1.000	824	23.05	0.0250
Gannet	666.6	26/7	0.1601	0.1245	1.014	873	25.96	0.0248
Starling	715.5	26/7	0.1659	0.129	1.051	938	27.44	0.0231
Redwing	715.5	30/19	0.1544	0.0926	1.081	1044	33.32	0.0227
Cuckoo	795	24/7	0.182	0.1213	1.092	982	27.26	0.0210
Drake	795	26/7	0.1749	0.136	1.107	1042	30.49	0.0208
Tern	795	45/7	0.1329	0.0886	1.063	874	21.56	0.0214
Condor	795	54/7	0.1213	0.1213	1.092	981	27.47	0.0210
Mallard	795	30/19	0.1628	0.0977	1.140	1161	37.08	0.0204
Ruddy	900	45/7	0.1414	0.0943	1.131	989	24.07	0.0189
Canary	900	54/7	0.1291	0.1291	1.162	1112	30.81	0.0186
Rail	954	45/7	0.1456	0.0971	1.165	1048	26.44	0.0179
Cardinal	954	54/7	0.1329	0.1329	1.196	1178	33.58	0.0175
Ortolan	1033.5	45/7	0.1515	0.1010	1.212	1135	28.05	0.0165
Curlew	1033.5	54/7	0.1383	0.1383	1.245	1276	36.42	0.0162
Bluejay	1113	45/7	0.1573	0.1049	1.258	1224	30.24	0.0153
Finch	1113	54/19	0.1436	0.0862	1.293	1370	38.73	0.0150
Bunting	1192.5	45/7	0.1628	0.1085	1.302	1310	32.39	0.0143
Grackle	1192.5	54/19	0.1436	0.0892	1.337	1467	40.83	0.0140
Bittern	1272	45/7	0.1681	0.1121	1.345	1399	34.55	0.0134
Pheasant	1272	54/19	0.1535	0.0921	1.381	1565	43.54	0.0131
Dipper	1351.5	45/7	0.1733	0.1155	1.386	1486	36.71	0.0126
Martin	1351.5	54/19	0.1582	0.0949	1.424	1662	46.24	0.0124
Bobolink	1431	45/7	0.1783	0.1189	1.426	1573	38.87	0.0119
Plover	1431	54/19	0.1628	0.0977	1.465	1761	49.01	0.0117
Nuthatch	1510.5	45/7	0.1832	0.1221	1.465	1660	41.01	0.0113
Parrot	1510	54/19	0.1672	0.1003	1.505	1857	51.67	0.0111
Lapwing	1590	45/7	0.1880	0.1253	1.504	1748	43.19	0.0107
Falcon	1590	54/19	0.1716	0.1030	1.544	1956	54.45	0.0106

ACSR/AW



## Conductor Data Sheet

### All Aluminum Conductor Alloy Reinforced (ACAR)

Cross Section	Stranding Design		Diameter of Single Wire	Nominal O.D. of Conductor	Nonimal Weight	Rated Strength	Maximum DC Resistance at 20°C
	Aluminum	Aluminum-alloy	in.	in.	lbs/1000ft	kips	Ω/1000 ft
250	12	7	0.1147	0.5732	234	6.18	0.0730
300	12	7	0.1257	0.6283	282	7.32	0.0608
350	12	7	0.1357	0.6787	328	8.33	0.0521
400	12	7	0.1451	0.7252	375	9.52	0.0456
450	12	7	0.1539	0.7693	422	10.55	0.0405
500	18	19	0.1162	0.8134	468	13.17	0.0373
500	24	13	0.1162	0.8134	468	11.83	0.0364
500	30	7	0.1162	0.8134	469	10.75	0.0356
500	12	7	0.1622	0.811	469	11.72	0.0365
503.6	12	7	0.1628	0.8138	472	11.81	0.0362
550	18	19	0.1219	0.8531	515	14.35	0.0339
550	24	13	0.1219	0.8531	515	12.84	0.0331
550	30	7	0.1219	0.8531	516	11.59	0.0323
550	12	7	0.1701	0.8504	516	12.9	0.0332
587.2	12	7	0.1758	0.8787	550	13.77	0.0311
600	18	19	0.471	0.8909	562	15.64	0.0311
600	24	13	0.471	0.8909	562	14	0.0304
600	30	7	0.471	0.8909	563	12.64	0.0296
600	12	7	0.471	0.8882	562	14.07	0.0304
649.5	24	13	0.51	0.9276	609	14.82	0.0280
649.5	30	7	0.51	0.9276	609	13.5	0.0273
650	18	19	0.51	0.9276	609	16.45	0.0287
650	24	13	0.51	0.9276	609	14.83	0.0280
650	30	7	0.51	0.9276	610	13.51	0.0273
653.1	12	7	0.513	0.9268	612	15.32	0.0279
700	18	19	0.55	0.9626	656	17.72	0.0266
700	24	13	0.549	0.9626	656	15.97	0.0260
700	30	7	0.55	0.9626	657	14.55	0.0254
739.8	18	19	0.581	0.9898	693	18.74	0.0252
739.8	24	13	0.581	0.9898	694	16.89	0.0246
739.8	30	7	0.581	0.9898	694	15.39	0.0240

ACAR



# Conductor Data Sheet

## All Aluminum Conductor Alloy Reinforced (ACAR)

Cross Section	Stranding Design		Diameter of Single Wire	Nominal O.D. of Conductor	Nonimal Weight	Rated Strength	Maximum DC Resistance at 20°C
	Aluminum	Aluminum-alloy	in.	in.	lbs/1000ft	kips	Ω/1000 ft
750	18	19	0.589	0.9969	703	19	0.0248
750	24	13	0.589	0.9969	704	17.12	0.0243
750	30	7	0.589	0.9969	704	15.6	0.0237
800	18	19	0.628	1.0291	749	20.25	0.0233
800	24	13	0.628	1.0291	750	18.25	0.0228
800	30	7	0.628	1.0291	750	16.63	0.0222
850	18	19	0.668	1.0614	797	21.31	0.0219
850	24	13	0.668	1.0614	798	19.12	0.0214
850	30	7	0.668	1.0614	798	17.32	0.0209
853.7	18	19	0.67	1.0634	800	21.39	0.0219
853.7	24	13	0.67	1.0634	800	19.19	0.0213
853.7	30	7	0.67	1.0634	801	17.38	0.0208
900	18	19	0.156	1.0917	843	22.56	0.0207
900	24	13	0.156	1.0917	844	20.24	0.0202
900	30	7	0.156	1.0917	845	18.33	0.0197
927.2	18	19	0.1583	1.1083	869	23.23	0.0201
927.2	24	13	0.1583	1.1083	869	20.84	0.0196
927.2	30	7	0.1583	1.1083	870	18.88	0.0191
950	18	19	0.1602	1.1213	890	23.79	0.0196
950	24	13	0.1602	1.1213	890	21.34	0.0192
950	30	7	0.1602	1.1213	891	19.34	0.0187
1000	42	19	0.128	1.152	937	22.26	0.0181
1000	48	13	0.128	1.152	938	20.61	0.0178
1000	54	7	0.128	1.152	938	19.34	0.0176
1000	18	19	0.1644	1.1508	937	25.06	0.0187
1000	24	13	0.1644	1.1508	938	22.48	0.0182
1000	30	7	0.1644	1.1508	939	20.37	0.0178
1024.5	18	19	0.1644	1.165	960	25.68	0.0182
1024.5	24	13	0.1644	1.165	961	23.03	0.0178
1024.5	30	7	0.1644	1.165	962	20.87	0.0173
1080.6	18	19	0.1709	1.1965	1013	27.08	0.0173

ACAR



## Conductor Data Sheet

### All Aluminum Conductor Alloy Reinforced (ACAR)

Cross Section	Stranding Design		Diameter of Single Wire	Nominal O.D. of Conductor	Nonimal Weight	Rated Strength	Maximum DC Resistance at 20°C
	Aluminum	Aluminum-alloy	in.	in.	lbs/1000ft	kips	Ω/1000 ft
1080.6	24	13	0.1709	1.1965	1013	24.29	0.0168
1080.6	30	7	0.1709	1.1965	1014	22.01	0.0164
1100	42	19	0.1343	1.2087	1032	24.5	0.0164
1100	48	13	0.1343	1.2087	1032	22.69	0.0162
1100	54	7	0.1343	1.2087	1033	21.29	0.0160
1100	18	19	0.1724	1.2067	1030	27.56	0.0170
1100	24	13	0.1724	1.2067	1031	24.72	0.0166
1100	30	7	0.1724	1.2067	1032	22.4	0.0162
1109	18	19	0.1731	1.2118	1039	27.78	0.0168
1109	30	7	0.1731	1.2118	1041	22.58	0.0160
1172	18	19	0.178	1.2461	1098	29.37	0.0159
1172	24	13	0.178	1.2461	1099	26.35	0.0155
1172	30	7	0.178	1.2461	1100	23.87	0.0152
1198	18	19	0.1799	1.2594	1122	30.01	0.0156
1198	24	13	0.1799	1.2594	1123	26.92	0.0152
1198	30	7	0.1799	1.2594	1124	24.39	0.0148
1200	42	19	0.1411	1.2701	1139	27.05	0.0149
1200	48	13	0.1411	1.2701	1140	25.05	0.0147
1200	54	7	0.1411	1.2701	1140	23.51	0.0145
1200	18	19	0.1801	1.2606	1125	30.08	0.0155
1200	24	13	0.1801	1.2606	1126	26.98	0.0152
1200	30	7	0.1801	1.2606	1127	24.44	0.0148
1250	42	19	0.1431	1.2878	1172	27.83	0.0145
1250	48	13	0.1431	1.2878	1172	25.77	0.0143
1250	54	7	0.1431	1.2878	1173	24.18	0.0141
1250	18	19	0.1838	1.2866	1171	31.33	0.0149
1250	24	13	0.1838	1.2866	1172	28.1	0.0145
1250	30	7	0.1838	1.2866	1173	25.46	0.0142
1277	42	19	0.1447	1.302	1198	28.44	0.0142
1277	48	13	0.1447	1.302	1198	26.33	0.0140
1277	54	7	0.1447	1.302	1199	24.72	0.0138

**ACAR**



# Conductor Data Sheet

## All Aluminum Conductor Alloy Reinforced (ACAR)

Cross Section	Stranding Design		Diameter of Single Wire	Nominal O.D. of Conductor	Nonimal Weight	Rated Strength	Maximum DC Resistance at 20°C
	Aluminum	Aluminum-alloy	in.	in.	lbs/1000ft	kips	Ω/1000 ft
1300	42	19	0.146	1.3138	1219	28.96	0.0139
1300	48	13	0.146	1.3138	1220	26.81	0.0137
1300	54	7	0.146	1.3138	1221	25.16	0.0135
1300	18	19	0.1874	1.3118	1217	32.56	0.0144
1300	24	13	0.1874	1.3118	1219	29.21	0.0140
1300	30	7	0.1874	1.3118	1220	26.46	0.0137
1361.5	42	19	0.1494	1.3449	1277	29.83	0.0133
1361.5	48	13	0.1494	1.3449	1278	27.53	0.0131
1361.5	54	7	0.1494	1.3449	1279	25.73	0.0129
1400	42	19	0.1515	1.3634	1313	30.67	0.0129
1400	48	13	0.1515	1.3634	1314	28.3	0.0127
1400	54	7	0.1515	1.3634	1315	26.46	0.0126
1500	42	19	0.1568	1.4114	1407	32.86	0.0121
1500	48	13	0.1568	1.4114	1408	30.32	0.0119
1500	54	7	0.1568	1.4114	1408	28.34	0.0117
1534.4	48	13	0.1568	1.4272	1440	31.01	0.0116
1534.4	54	7	0.1568	1.4272	1440	31.01	0.0116
1600	33	28	0.162	1.4583	1500	37.94	0.0116
1600	42	19	0.162	1.4583	1502	35.08	0.0113
1600	48	13	0.162	1.4583	1502	35.08	0.0113
1600	54	7	0.162	1.4583	1503	30.25	0.0110
1700	42	19	0.1669	1.502	1593	37.22	0.0106
1700	48	13	0.1669	1.502	1594	34.34	0.0105
1700	54	7	0.1669	1.502	1595	32.1	0.0103
1703	42	19	0.1671	1.5039	1597	37.31	0.0106
1703	48	13	0.1671	1.5039	1598	34.42	0.0105
1703	54	7	0.1671	1.5039	1599	32.18	0.0103
1750	42	19	0.1694	1.5248	1642	38.36	0.0103
1750	48	13	0.1694	1.5248	1643	35.39	0.0102
1750	54	7	0.1694	1.5248	1644	33.08	0.0100
1798	42	19	0.1717	1.5453	1687	39.4	0.0101

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## Conductor Data Sheet

### All Aluminum Conductor Alloy Reinforced (ACAR)

Cross Section	Stranding Design		Diameter of Single Wire	Nominal O.D. of Conductor	Nonimal Weight	Rated Strength	Maximum DC Resistance at 20°C
	Aluminum	Aluminum-alloy	in.	in.	lbs/1000ft	kips	Ω/1000 ft
1798	48	13	0.1717	1.5453	1688	36.35	0.0099
1798	54	7	0.1717	1.5453	1688	33.98	0.0098
1800	42	19	0.1726	1.5535	1704	39.81	0.0100
1800	48	13	0.1726	1.5535	1705	36.73	0.0098
1800	54	7	0.1726	1.5535	1706	34.34	0.0097
1900	42	19	0.1765	1.5886	1782	41.63	0.0095
1900	48	13	0.1765	1.5886	1783	38.41	0.0094
1900	54	7	0.1765	1.5886	1784	35.91	0.0092
1933	42	19	0.178	1.6024	1813	42.36	0.0094
1933	48	13	0.178	1.6024	1814	39.08	0.0092
1933	54	7	0.178	1.6024	1815	36.53	0.0091
2000	54	37	0.1482	1.6299	1873	45.93	0.0092
2000	72	19	0.1482	1.6299	1875	40.27	0.0089
2000	42	19	0.1811	1.6299	1895	43.83	0.0091
2000	48	13	0.1811	1.6299	1896	40.44	0.0090
2000	54	7	0.1811	1.6299	1897	37.81	0.0089
2250	54	37	0.1572	1.7291	2129	51.69	0.0082
2250	72	19	0.1572	1.7291	2131	45.32	0.0080
2338	42	19	0.1958	1.7622	2215	51.23	0.0078
2338	48	13	0.1958	1.7622	2216	47.27	0.0077
2338	54	7	0.1958	1.7622	2217	44.19	0.0076
2493	54	37	0.1655	1.8205	2360	57.3	0.0074
2493	63	28	0.1655	1.8205	2361	53.31	0.0073
2493	72	19	0.1655	1.8205	2362	50.24	0.0072
2500	54	37	0.1657	1.8228	2365	57.44	0.0074
2500	72	19	0.1657	1.8228	2368	50.35	0.0072
2750	54	37	0.1738	1.9118	2603	63.2	0.0067
2750	72	19	0.1738	1.9118	2606	55.4	0.0066
3000	54	37	0.1816	1.9976	2869	68.99	0.0062
3000	72	19	0.1816	1.9976	2872	60.49	0.0061

ACAR



# Conductor Data Sheet

## Aluminum Alloy Conductors Steel Reinforced ( AACSR )

Nominal Area, mm <sup>2</sup>		Stranding Design Aluminum-alloy/Steel	Diameter of Aluminum-alloy	Diameter of Steel	Nominal O.D. of Conductor	Nonimal Weight	Rated Strength	Maximum DC Resistance at 20 °C
Aluminum- alloy	Steel		mm	mm	mm	kg/km	kN	Ω/1000 ft
140	23	26/7	2.62	2.04	16.6	565	75	0.2401
140	33	30/7	2.44	2.44	17.1	643	87.4	0.2406
160	26	26/7	2.8	2.18	17.7	643	85.6	0.2103
160	38	30/7	2.61	2.61	18.3	736	106	0.2102
180	29	26/7	2.97	2.31	18.8	731	95.1	0.1869
180	42	30/7	2.76	2.76	19.3	823	112	0.188
200	32	26/7	3.13	2.43	19.8	805	106	0.1683
200	47	30/7	2.91	2.91	20.4	915	124	0.1691
224	36	26/7	3.31	2.57	21	901	118	0.1505
224	52	30/7	3.08	3.08	21.6	1025	139	0.151
250	41	26/7	3.5	2.72	22.2	1008	129	0.1346
250	58	30/7	3.26	3.26	22.8	1149	156	0.1348
280	46	26/7	3.7	2.88	23.4	1127	144	0.1204
280	65	30/7	3.45	3.45	23.4	1286	171	0.1203
315	52	26/7	3.93	3.06	24.9	1272	163	0.1067
315	72	30/19	3.66	2.2	25.6	1438	190	0.09286
355	58	26/7	4.17	3.24	26.4	1430	183	0.0948
355	81	30/19	3.88	2.33	27.2	1614	211	0.09465
400	65	26/7	4.43	3.45	28.1	1616	207	0.08372
400	91	30/19	4.12	2.47	28.8	1818	237	0.08394
450	59	54/19	3.26	1.98	29.5	1706	215	0.07456
500	63	54/19	3.43	1.98	30.9	1878	229	0.06735
560	71	54/19	3.63	2.18	32.7	2104	257	0.06013
630	80	54/19	3.85	2.31	34.6	2365	286	0.05346
710	90	54/19	4.09	2.45	36.8	2664	322	0.04737
800	101	54/19	4.34	2.6	39	3003	363	0.04207

AACSR

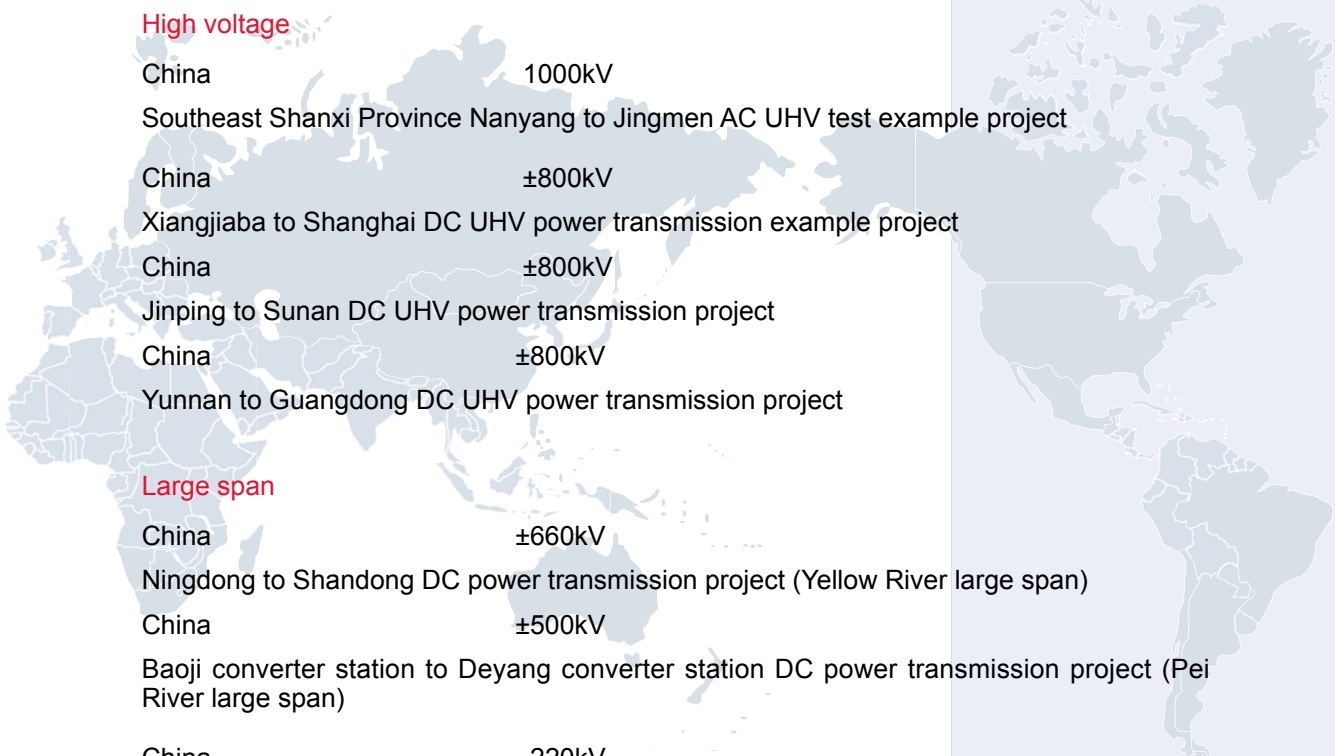


## Overseas Reference

Country	Total Length
Chile	5300 km
Peru	1500 km
Panama	620 km
Australia	3500 km
Kenya	1250 km
Nigeria	3800 km
Saudi Arabia	2100 km
Thailand	5200 km
Pakistan	375 km
Kazakhstan	1007 km
Bengal	1340 km
Mozambique	752 km
Indonesia	6200 km

## Outstanding Projects

### High voltage



China	1000kV	Southeast Shanxi Province Nanyang to Jingmen AC UHV test example project
China	±800kV	Xiangjiaba to Shanghai DC UHV power transmission example project
China	±800kV	Jinping to Sunan DC UHV power transmission project
China	±800kV	Yunnan to Guangdong DC UHV power transmission project

### Large span

China	±660kV	Ningdong to Shandong DC power transmission project (Yellow River large span)
China	±500kV	Baoji converter station to Deyang converter station DC power transmission project (Pei River large span)
China	220kV	Shenzheng Qianwan Power Plant Project (Cross sea)
China		Shuicheng transformer substation to Liupanshui Weining transformer substation power transmission project (Cross gorge)

## References

# ZTT CABLE

ZTT is a leading and global manufacturer of cable systems, providing total-package solutions for telecommunication and power applications worldwide. With a strong heritage of highly advanced R&D, ZTT is at the leading edge of the technology.

ZTT was established in 1992 and became a public company in 2002. Now ZTT has 22 subsidiaries in China. Today, Our products are widely used in telecommunication industry, power transmission industry, mining cable industry, marine and submarine cable industry, railway industry, cable manufacturing and so on.

Market-oriented, meeting various demands of clients and providing economical, reliable solutions of cables are our goals. when a project is in ZTT's hands, our customers can depend on high-end engineering capabilities, innovative product design and life cycle maintenance service.





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