

Bare Overhead Conductors





Your Partner in Cable

Company Profile

ZTT is specialized in research, development, production, marketing, service and support of conductors for electrical power lines.

ZTT has the first-class equipments and quality management system. Our typical references include up to 1000kV and span length reach to 2746m in China. "Customer First", "Quality", and "Innovation" drive us to be successful in the market.

With more than 70 years' experiences, ZTT can provide not only conventional conductor but also up-rating conductor. For conventional conductor, the products include: ACSR, AAAC, AAC and so on. And for up-rating conductor, the products include: GAP Type Conductor, INVAR Core Conductor, TACSR and ACSS. We have supplied each kind of conductors with 200 thousands tons for 500kV line as yet and have exported about 70 thousands tons to the world.

ZTT will consistently serve the telecommunication and power grid industry relying on its sales & services network all over the world.

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Conductor Data Sheet

All Aluminum Conductors–AAC

Code Name	Cross Section	Copper Equivalent	Number of Wires	Diameter of Aluminum Wire	Nominal Weight	Rated Strength	Maximum DC Resistance at 20°C
	mm ²	AWG or MCM		mm	kg/km	kN	Ω/km
Pansy	42.37	3	7	2.78	116.6	7.30	0.6781
Iris	33.65	4	7	2.47	92.6	5.99	0.8540
Rose	21.14	6	7	1.96	58.2	3.91	1.3593
Poppy	53.49	2	7	3.12	147.2	8.84	0.5371
Aster	67.45	1	7	3.50	185.7	11.1	0.4262
Phlox	85.00	1/0	7	3.93	233.9	13.5	0.3379
Oxlip	107.26	2/0	7	4.42	295.2	17.0	0.2679
Valerian	126.66	157.2	19	2.91	348.6	20.7	0.2269
Sneezewort	126.70	157.2	7	4.80	348.8	20.1	0.2268
Laurel	135.19	3/0	19	3.01	372.2	22.1	0.2126
Daisy	135.29	3/0	7	4.96	372.3	21.4	0.2124
Peony	152.12	188.7	19	3.19	418.3	24.3	0.1889
Tulip	170.56	4/0	19	3.38	469.5	27.3	0.1685
Daffodil	177.28	220	19	3.45	487.9	28.4	0.1621
Canna	200.99	250	19	3.67	554.9	31.6	0.1426
Goldentuft	228.03	283	19	3.91	627.6	35.0	0.1260
Syringa	241.52	300	37	2.88	664.8	38.6	0.1190
Cosmos	241.56	300	19	4.02	664.8	37.0	0.1190
Hyacinth	253.15	314	37	2.95	696.8	40.5	0.1135
Zinnia	253.29	314	19	4.12	697.1	38.9	0.1135
Dahlia	281.85	350	19	4.35	775.7	43.3	0.1020
Mistletoe	282.88	350	37	3.12	775.8	44.3	0.1020
Meadowsweet	303.82	377	37	3.23	836.3	47.5	0.09459
Orchid	322.23	400	37	3.33	886.9	50.4	0.08917
Heuchera	329.65	409	37	3.37	907.4	51.7	0.08717
Flag	354.54	440	61	2.72	975.8	57.1	0.08104
Verbena	354.46	440	37	3.49	975.7	55.4	0.08107

Note: All the data set out in this catalogue is given for information and ZTT shall not be held responsible for its accuracy.

Conductor Data Sheet

All Aluminum Conductors –AAC

Code Name	Cross Section	Copper Equivalent	Number of Wires	Diameter of Aluminum Wire	Nominal Weight	Rated Strength	Maximum DC Resistance at 20°C
	mm ²	AWG or MCM		mm	kg/km	kN	Ω/km
Nasturtium	362.53	450	61	2.75	998.5	58.4	0.07927
Violet	362.76	450	37	3.53	998.5	56.7	0.07920
Cattail	380.15	472	61	2.82	1046	60.3	0.07559
Petunia	380.17	472	37	3.62	1046	58.6	0.07602
Lilac	403.11	500	61	2.90	1110	63.8	0.07129
Arbutus	402.93	500	37	3.72	1109	61.8	0.07133
Snapdragon	456.29	566	61	3.09	1256	70.8	0.06299
Cockscomb	456.26	566	37	3.96	1256	68.4	0.06299
Goldenrod	483.73	600	61	3.18	1331	75.0	0.05942
Magnolia	483.56	600	37	4.08	1331	72.6	0.05942
Camellia	506.42	629	61	3.25	1394	78.3	0.05676
Hawkweed	506.71	629	37	4.18	1395	76.2	0.05669
Larkspur	523.97	650	61	3.31	1442	81.3	0.05486
Bluebell	524.89	650	37	4.25	1441	78.8	0.05489
Marigold	564.16	700	61	3.43	1553	87.3	0.05095
Hawthorn	604.09	750	61	3.55	1662	93.5	0.04757
Narcissus	644.50	800	61	3.67	1774	98.1	0.04459
Columbine	684.37	850	61	3.78	1884	104	0.04199
Carnation	725.45	900	61	3.89	1997	108	0.03960
Gladiolus	765.77	950	61	4.00	2108	114	0.03753
Coreopsis	805.18	1000	61	4.10	2216	120	0.03570
Jessamine	886.98	1101	61	4.30	2442	132	0.03240
Cowslip	1015.82	1260	91	3.77	2787	153	0.02865
Sagebrush	1139.48	1370	91	3.99	3166	167	0.02547
Lupine	1266.03	1570	91	4.21	3519	186	0.02292
Bitterroot	1396.29	1680	91	4.42	3872	205	0.02083

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Conductor Data Sheet

All Aluminum Alloy Conductors-AAAC

Code Name	Cross Section	Copper Equivalent	Number of Wires	Diameter of Single Wire	Nominal Weight	Rated Strength	Maximum DC Resistance at 20°C
	mm ²	AWG or MCM		mm	kg/km	kN	Ω/km
Alton	24.67	4	7	2.12	67.8	7.83	1.356
Ames	39.25	2	7	2.67	107.5	12.4	0.8547
Azusa	62.46	1/0	7	3.37	171.3	18.9	0.5365
Anaheim	78.75	2/0	7	3.78	215.6	23.8	0.4264
Amherst	99.16	3/0	7	4.25	272.5	30.0	0.3373
Alliance	125.10	4/0	7	4.77	343.2	37.8	0.2678
Butte	158.48	266.8	19	3.26	435.1	46.5	0.2112
Canton	199.91	336.4	19	3.66	548.5	58.6	0.1676
Cairo	235.80	397.5	19	3.98	648.6	69.2	0.1417
Darien	283.50	477	19	4.36	778.3	83.1	0.1181
Elgin	330.57	556.5	19	4.71	908.3	97.0	0.1012
Flint	375.38	636	37	3.59	1028	107	0.08944
Greeley	469.81	795	37	4.02	1289	135	0.07133
/	545.93	954	61	3.38	1502	156	0.0612
/	590.34	1033.5	61	3.51	1620	167	0.05675
/	638.27	1113	61	3.65	1751	181	0.05248
/	683.46	1192.5	61	3.78	1878	194	0.04893
/	729.24	1272	61	3.90	1999	207	0.04597

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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	Nominal Weight	Rated Strength	Maximum DC Resistance at 20°C
	mm ²		mm	mm	mm	kg/km	kN	Ω/km
Robin	49.47	6/1	3.00	3.00	8.99	171.1	15.8	0.6743
Sparrow	39.25	6/1	2.67	2.67	8.03	135.7	12.7	0.8499
Swan	24.67	6/1	2.12	2.12	6.35	85.3	8.3	1.3522
/	19.58	6/1	1.89	1.89	5.66	67.7	6.6	1.7037
Raven	62.46	6/1	3.37	3.37	10.11	216.1	19.5	0.5341
Quail	78.64	6/1	3.78	3.78	11.35	272.0	23.6	0.4242
Pigeon	99.16	6/1	4.25	4.25	12.75	343.0	29.4	0.3364
Penguin	125.10	6/1	4.77	4.77	14.30	432.7	37.1	0.2667
Waxwing	142.59	18/1	3.09	3.09	15.47	430.2	30.7	0.2127
Partridge	157.22	26/7	2.57	2.00	16.31	545.9	50.3	0.2136
Ostrich	176.69	26/7	2.73	2.12	17.27	613.4	56.5	0.1900
Merlin	179.91	18/1	3.47	3.47	17.37	542.8	38.7	0.1686
Linnet	198.03	26/7	2.89	2.25	18.29	687.5	62.7	0.1695
Oriole	210.26	30/7	2.69	2.69	18.82	783.3	77.0	0.1698
Chickadee	212.59	18/1	3.77	3.77	18.87	641.3	44.0	0.1427
Brant	227.54	24/7	3.27	2.18	19.61	761.0	64.9	0.1434
Ibis	234.02	26/7	3.14	2.44	19.89	812.4	72.5	0.1435
Lark	248.38	30/7	2.92	2.92	20.47	925.2	90.3	0.1437
Pelican	255.16	18/1	4.14	4.14	20.68	769.7	52.5	0.1189
Flicker	273.11	24/7	3.58	2.39	21.49	913.5	76.5	0.1194
Hawk	280.86	26/7	3.44	2.67	21.79	975.1	86.7	0.1196
Hen	298.12	30/7	3.20	3.20	22.43	1110.6	105.9	0.1198
Osprey	297.54	18/1	4.47	4.47	22.33	897.7	60.9	0.1019
Parakeet	318.62	24/7	3.87	2.58	23.22	1065.6	88.1	0.1024
Dove	327.92	26/7	3.72	2.89	23.55	1138.6	100.5	0.1024
Eagle	347.79	30/7	3.46	3.46	24.21	1295.6	123.7	0.1027

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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	Nominal Weight	Rated Strength	Maximum DC Resistance at 20°C
	mm ²		mm	mm	mm	kg/km	kN	Ω/km
Peacock	346.45	24/7	4.03	2.69	24.21	1158.9	96.1	0.09416
Squab	356.28	26/7	3.87	3.01	24.54	1237.0	108.1	0.09425
Wood Duck	378.04	30/7	3.61	3.61	25.25	1408.4	128.6	0.09444
Teal	376.40	30/19	3.61	2.16	25.25	1396.6	133.4	0.09444
Kingbird	340.27	18/1	4.78	4.78	23.88	1026.6	69.8	0.08914
Swift	331.14	36/1	3.38	3.38	23.62	956.5	61.4	0.08919
Rook	364.07	24/7	4.14	2.76	24.82	1217.5	100.5	0.08959
Grosbeak	374.71	26/7	3.97	3.09	25.15	1300.8	112.1	0.08961
Scoter	397.45	30/7	3.70	3.70	25.88	1480.7	135.2	0.08982
Egret	395.80	30/19	3.70	2.22	25.88	1469.0	140.1	0.08982
Flamingo	381.72	24/7	4.23	2.82	25.40	1276.6	105.4	0.08545
Gannet	392.67	26/7	4.07	3.16	25.76	1363.3	117.4	0.08551
Stilt	409.70	24/7	4.39	2.92	26.31	1370.4	113.4	0.07961
Starling	421.62	26/7	4.21	3.28	26.70	1463.7	126.3	0.07964
Redwing	444.94	30/19	3.92	2.35	27.46	1650.6	153.9	0.07988
Coot	414.00	36/1	3.77	3.77	26.42	1195.8	74.7	0.07134
Cuckoo	455.01	24/7	4.62	3.08	27.74	1522.2	124.1	0.07169
Drake	468.61	26/7	4.44	3.45	28.14	1626.4	140.1	0.07165
Tern	430.58	45/7	3.38	2.25	27.00	1331.8	98.3	0.07170
Condor	454.79	54/7	3.08	3.08	27.74	1520.7	125.4	0.07172
Mallard	494.79	30/19	4.14	2.48	28.96	1836.0	170.8	0.07185
Ruddy	487.44	45/7	3.59	2.40	28.73	1507.3	108.5	0.06334
Canary	515.16	54/7	3.28	3.28	29.51	1723.1	141.9	0.06332
Catbird	496.90	36/1	4.14	4.14	28.96	1434.4	88.1	0.05944
Rail	516.83	45/7	3.70	2.47	29.59	1598.1	115.2	0.05974
Cardinal	545.93	54/7	3.38	3.38	30.38	1825.9	150.3	0.05975

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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	Nominal Weight	Rated Strength	Maximum DC Resistance at 20°C
	mm ²		mm	mm	mm	kg/km	kN	Ω/km
Tanager	538.01	36/1	4.30	4.30	30.12	1553.5	95.2	0.05489
Ortolan	559.54	45/7	3.85	2.57	30.78	1730.5	123.2	0.05518
Curlew	591.20	54/7	3.51	3.51	31.62	1977.6	162.8	0.05518
Bluejay	603.22	45/7	4.00	2.66	31.98	1866.0	132.6	0.05118
Finch	635.77	54/19	3.65	2.19	32.84	2127.8	173.9	0.05143
Bunting	646.09	45/7	4.14	2.76	33.07	1996.9	142.3	0.04778
Grackle	680.81	54/19	3.77	2.27	33.99	2278.1	186.4	0.04802
Skylark	662.64	36/1	4.78	4.78	33.43	1913.6	117.4	0.04457
Bittern	688.90	45/7	4.27	2.85	34.16	2130.8	151.7	0.04482
Pheasant	726.38	54/19	3.90	2.34	35.10	2431.4	193.9	0.04501
Dipper	732.12	45/7	4.40	2.93	35.20	2263.2	161.0	0.04217
Martin	771.51	54/19	4.02	2.41	36.17	2581.7	206.0	0.04237
Bobolink	775.04	45/7	4.53	3.02	36.25	2397.2	170.4	0.03984
Plover	817.10	54/19	4.14	2.48	37.21	2734.9	218.4	0.04001
Nuthatch	818.16	45/7	4.65	3.10	37.24	2529.6	178.4	0.03773
Parrot	861.79	54/19	4.25	2.55	38.23	2883.7	230.0	0.03793
Lapwing	861.60	45/7	4.78	3.18	38.20	2663.5	187.7	0.03583
Falcon	907.86	54/19	4.36	2.62	39.24	3038.5	242.4	0.03601
Chukar	975.86	84/19	3.70	2.22	40.69	3083.1	226.9	0.03216
Bluebird	1181.26	84/19	4.07	2.44	44.75	3731.9	268.2	0.03656
Kiwi	1145.70	72/7	4.41	2.94	44.07	3423.9	221.5	0.02642
Thrasher	1235.08	76/19	4.43	2.07	45.77	3754.2	252.2	0.02477

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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	Nominal Weight	Rated Strength	Maximum DC Resistance at 20°C
	mm ²		mm	mm	mm	kg/km	kN	Ω/km
Robin	49.47	6/1	3.00	3.00	9.00	15.6	162	0.6385
Sparrow	39.25	6/1	2.67	2.67	8.02	12.5	129	0.8046
Swan	24.67	6/1	2.12	2.12	6.36	8.0	81	1.2803
Petrel	81.66	12/7	2.34	2.34	11.70	44.0	342	0.4472
Raven	62.46	6/1	3.37	3.37	10.11	19.1	205	0.5057
Quail	78.64	6/1	3.78	3.78	11.35	22.7	259	0.4016
Pigeon	99.16	6/1	4.25	4.25	12.74	28.0	326	0.3185
Penguin	125.10	6/1	4.77	4.77	14.31	34.3	412	0.2525
Minorca	88.91	12/7	2.44	2.44	12.20	48.0	372	0.4108
Leghorn	107.97	12/7	2.69	2.69	13.45	57.8	452	0.3383
Guinea	127.54	12/7	2.92	2.92	14.62	68.1	534	0.2863
Dotterel	141.89	12/7	3.08	3.08	15.42	75.2	594	0.2574
Dorking	153.09	12/7	3.20	3.20	16.01	81.4	641	0.2386
Cochin	169.53	12/7	3.37	3.37	16.85	88.1	710	0.2154
partridge	157.22	26/7	2.57	2.00	16.30	48.0	519	0.1996
Waxwing	142.59	18/1	3.09	3.09	15.46	30.2	421	0.2077
Ostrich	176.69	26/7	2.73	2.12	17.27	53.8	583	0.1775
Oriole	210.26	30/7	2.69	2.69	18.83	74.3	737	0.1542
Linnet	198.03	26/7	2.89	2.25	18.29	60.1	655	0.1584
Merlin	179.91	18/1	3.47	3.47	17.36	37.8	531	0.1647
Lark	248.38	30/7	2.92	2.92	20.46	87.2	869	0.1306
Ibis	234.02	26/7	3.14	2.44	19.88	70.3	774	0.1341
Brant	227.54	24/7	3.27	2.18	19.61	62.7	731	0.1358
Chickadee	212.59	18/1	3.77	3.77	18.87	43.6	628	0.1393
Flicker	273.11	24/7	3.58	2.39	21.49	74.3	877	0.1131
Pelican	255.16	18/1	4.14	4.14	20.68	51.2	755	0.1161
Hawk	280.86	26/7	3.44	2.67	21.78	84.1	929	0.1117
Hen	298.12	30/7	3.20	3.20	22.42	104.1	1043	0.1088
Osprey	297.54	18/1	4.47	4.47	22.33	58.7	880	0.09955
parakeet	318.62	24/7	3.87	2.58	23.21	85.9	1022	0.09695
Dove	327.92	26/7	3.72	2.89	23.54	97.4	1083	0.09567
Eagle	347.79	30/7	3.46	3.46	24.22	119.2	1217	0.09323
Wood duck	378.04	30/7	3.61	3.61	25.25	126.3	1323	0.08577
Teal	376.40	30/19	3.61	2.16	25.25	126.8	1314	0.08597

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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	Nominal Weight	Rated Strength	Maximum DC Resistance at 20°C
	mm ²		mm	mm	mm	kg/km	kN	Ω/km
Kingbird	340.27	18/1	4.78	4.78	23.88	66.7	1006	0.08705
Rook	364.07	24/7	4.14	2.76	24.81	97.9	1168	0.08484
Grosbeak	374.71	26/7	3.97	3.09	25.16	110.3	1238	0.08372
Scoter	397.45	30/7	3.70	3.70	25.89	130.3	1391	0.08158
Egret	395.80	30/19	3.70	2.22	25.89	133.0	1381	0.08176
Flamingo	381.72	24/7	4.23	2.82	25.40	102.8	1225	0.08092
Gannet	392.67	26/7	4.07	3.16	25.75	115.7	1298	0.07989
Starling	421.62	26/7	4.21	3.28	26.69	122.3	1393	0.07441
Redwing	444.94	30/19	3.92	2.35	27.45	148.6	1552	0.07272
Cuckoo	455.01	24/7	4.62	3.08	27.73	122.3	1460	0.06789
Drake	468.61	26/7	4.44	3.45	28.13	135.7	1549	0.06695
Tern	430.58	45/7	3.38	2.25	27.01	95.6	1298	0.06962
Condor	454.79	54/7	3.08	3.08	27.73	123.7	1458	0.06792
Mallary	494.79	30/19	4.14	2.48	28.95	165.0	1726	0.0654
Ruddy	487.44	45/7	3.59	2.40	28.74	106.8	1470	0.0615
Canary	515.16	54/7	3.28	3.28	29.51	137.9	1653	0.05996
Rail	516.83	45/7	3.70	2.47	29.59	113.0	1558	0.058
Cardinal	545.93	54/7	3.38	3.38	30.38	146.3	1752	0.05658
Ortolan	559.54	45/7	3.85	2.57	30.78	120.5	1688	0.05358
Curlew	591.20	54/7	3.51	3.51	31.62	158.4	1896	0.05225
Bluejay	603.22	45/7	4.00	2.66	31.97	130.3	1819	0.0497
Finch	635.77	54/19	3.65	2.19	32.83	166.8	2043	0.04875
Bunting	646.09	45/7	4.14	2.76	33.08	139.2	1948	0.0464
Grackle	680.81	54/19	3.77	2.27	33.98	178.8	2188	0.04553
Bittern	688.90	45/7	4.27	2.85	34.16	148.6	2078	0.04352
Pheasant	726.38	54/19	3.90	2.34	35.09	188.6	2333	0.04267
Dipper	732.12	45/7	4.40	2.93	35.21	157.9	2207	0.04095
Martin	771.51	54/19	4.02	2.41	36.16	200.6	2478	0.04017
Bobolink	775.04	45/7	4.53	3.02	36.23	167.3	2336	0.03868
Plover	817.10	54/19	4.14	2.48	37.22	212.2	2625	0.03793
Nuthatch	818.16	45/7	4.65	3.10	37.22	176.6	2467	0.03664
Parrot	861.79	54/19	4.25	2.55	38.22	223.7	2768	0.03596
Lapwing	861.60	45/7	4.78	3.18	38.20	185.9	2598	0.03479
Falcon	907.86	54/19	4.36	2.62	39.23	235.8	2917	0.03414

Note: All the data set out in this catalogue is given for information and ZTT shall not be held responsible for its accuracy.

Conductor Data Sheet

All Aluminum Conductor Alloy Reinforced-ACAR

Cross Section	Stranding Design		Diameter of Single Wire	Nominal O.D. of Conductor	Nominal Weight	Rated Strength	Maximum DC Resistance at 20°C
mm ²	Aluminum	Aluminum-alloy	mm	mm	kg/km	kN	Ω/km
127	12	7	2.91	14.58	157.3	27.6	0.2394
152	12	7	3.19	15.95	188.8	32.8	0.1993
177	12	7	3.45	17.22	219.8	37.4	0.1710
203	12	7	3.69	18.44	251.3	42.4	0.1496
228	12	7	3.91	19.56	282.9	47.2	0.1330
253	18	19	2.95	20.65	313.8	58.8	0.1225
253	24	13	2.95	20.65	314.5	52.9	0.1195
253	30	7	2.95	20.65	314.5	48.0	0.1167
253	12	7	4.12	20.60	314.5	52.4	0.1197
255	15	4	4.14	20.68	317.9	46.5	0.1161
279	18	19	3.10	21.67	345.4	64.3	0.1113
279	24	13	3.10	21.67	345.4	57.6	0.1086
279	30	7	3.10	21.67	346.1	52.1	0.1060
279	12	7	4.32	21.59	345.4	57.6	0.1089
298	15	4	4.47	22.33	370.3	54.3	0.09956
304	18	19	3.23	22.63	376.3	70.1	0.1020
304	24	13	3.23	22.63	377.0	62.8	0.09955
304	30	7	3.23	22.63	377.7	56.8	0.09719
304	12	7	4.51	22.56	377.0	62.9	0.09975
329	18	19	3.37	23.56	408.6	73.8	0.09418
329	18	19	3.37	23.57	407.9	73.8	0.09418
329	24	13	3.37	23.57	408.6	66.6	0.09189
329	30	7	3.37	23.57	409.3	60.8	0.08972
331	12	7	4.71	23.55	411.3	68.5	0.09163
354	18	19	3.49	24.43	439.5	79.5	0.08745
354	24	13	3.49	24.43	439.5	71.8	0.08533

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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	Nominal Weight	Rated Strength	Maximum DC Resistance at 20°C
mm ²	Aluminum	Aluminum-alloy	mm	mm	kg/km	kN	Ω/km
354	30	7	3.49	24.43	440.2	65.5	0.08331
375	18	19	3.59	25.14	465.7	83.5	0.08270
380	18	19	3.62	25.32	471.1	84.7	0.08154
380	24	13	3.62	25.32	471.8	76.2	0.07956
380	30	7	3.62	25.32	471.8	69.2	0.07767
405	18	19	3.73	26.14	502.7	90.3	0.07651
405	24	13	3.73	26.14	502.7	81.2	0.07466
405	30	7	3.73	26.14	503.4	73.8	0.07289
431	18	19	3.85	26.95	534.3	95.3	0.07194
431	24	13	3.85	26.95	534.9	85.4	0.07020
431	30	7	3.85	26.95	534.9	77.3	0.06853
433	24	13	3.86	27.01	537.6	85.8	0.06992
433	30	7	3.86	27.01	538.3	77.6	0.06826
456	18	19	3.96	27.74	565.9	101.0	0.06794
456	24	13	3.96	27.74	565.9	90.5	0.06629
456	30	7	3.96	27.74	566.5	81.9	0.06472
470	24	13	4.02	28.15	584.0	93.2	0.06438
481	24	13	4.07	28.47	596.8	95.4	0.06286
481	30	7	4.07	28.47	597.4	86.4	0.06137
481	33	4	4.07	28.47	598.1	79.7	0.06065
506	48	13	3.25	29.26	629.0	94.1	0.05852
506	54	7	3.25	29.26	629.0	87.9	0.05768
507	18	19	4.18	29.24	628.4	112.0	0.06118
507	24	13	4.18	29.24	629.0	101.0	0.05969
507	30	7	4.18	29.24	629.0	91.0	0.05828
519	24	13	4.23	29.59	645.8	103.0	0.05826

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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	Nominal Weight	Rated Strength	Maximum DC Resistance at 20°C
mm ²	Aluminum	Aluminum-alloy	mm	mm	kg/km	kN	Ω/km
519	30	7	4.23	29.59	645.8	93.2	0.05688
548	18	19	4.34	30.39	680.1	121.0	0.05661
548	24	13	4.34	30.39	680.8	109.0	0.05524
557	42	19	3.41	30.71	691.5	110	0.05393
557	48	13	3.41	30.71	692.2	102	0.05315
557	54	7	3.41	30.71	692.9	95.9	0.05240
557	18	19	4.38	30.66	690.9	123	0.05563
557	24	13	4.38	30.66	691.5	111	0.05428
557	30	7	4.38	30.66	692.2	101	0.05299
562	24	13	4.40	30.78	698.9	111	0.05384
562	30	7	4.40	30.78	699.6	101	0.05257
594	18	19	4.52	31.64	737.9	131	0.05218
594	30	7	4.52	31.64	739.2	107	0.04971
607	24	13	4.57	31.99	754.7	120	0.04985
607	30	7	4.57	31.99	755.4	109	0.04867
617	42	19	3.59	32.08	755.4	119	0.04872
617	48	13	3.59	32.08	756.0	110	0.04802
617	54	7	3.59	32.08	755.4	104	0.04734
608	18	19	4.57	32.03	754.0	135	0.05097
608	24	13	4.57	32.03	754.7	121	0.04974
608	30	7	4.57	32.03	755.4	109	0.04856
633	42	19	3.63	32.72	785.6	124	0.04750
633	48	13	3.63	32.72	785.6	114	0.04682
633	54	7	3.63	32.72	786.3	107	0.04615
633	18	19	4.67	32.68	784.9	140	0.04894
633	24	13	4.67	32.68	786.3	126	0.04776

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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	Nominal Weight	Rated Strength	Maximum DC Resistance at 20°C
mm ²	Aluminum	Aluminum-alloy	mm	mm	kg/km	kN	Ω/km
633	30	7	4.67	32.68	786.3	114	0.04662
647	42	19	3.68	33.08	805.1	126	0.04646
647	54	7	3.68	33.08	805.8	110	0.04514
659	42	19	3.71	33.38	817.9	129	0.04563
659	48	13	3.71	33.38	817.9	119	0.04498
659	54	7	3.71	33.38	818.5	112	0.04434
658	18	19	4.76	33.32	816.5	146	0.04708
658	24	13	4.76	33.32	817.2	131	0.04594
658	30	7	4.76	33.32	817.9	118	0.04485
690	54	7	3.79	34.15	858.9	117	0.04234
709	42	19	3.85	34.65	881.0	137	0.04238
709	48	13	3.85	34.65	881.0	126	0.04177
709	54	7	3.85	34.65	881.7	118	0.04118
760	42	19	3.98	35.84	943.5	147	0.03956
760	48	13	3.98	35.84	943.5	135	0.03899
760	54	7	3.98	35.84	944.2	127	0.03844
777	42	19	4.03	36.26	967.1	150	0.03867
811	33	28	4.11	37.03	1006.0	160	0.03790
811	42	19	4.11	37.03	1006.7	157	0.03707
811	48	13	4.11	37.03	1007.4	145	0.03653
811	54	7	4.11	37.03	1007.4	135	0.03601
861	42	19	4.24	38.15	1069.2	166	0.03492
861	48	13	4.24	38.15	1069.2	153	0.03442
861	54	7	4.24	38.15	1069.9	143	0.03393
863	48	13	4.24	46.69	1073.9	154	0.03434
887	42	19	4.30	38.74	1100.8	171	0.03390
887	48	13	4.30	38.74	1100.8	158	0.03341

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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	Nominal Weight	Rated Strength	Maximum DC Resistance at 20°C
mm ²	Aluminum	Aluminum-alloy	mm	mm	kg/km	kN	Ω/km
887	54	7	4.30	38.74	1101.5	148	0.03293
911	42	19	4.36	39.25	1133.1	176	0.03300
912	42	19	4.36	39.27	1132.4	176	0.03296
912	48	13	4.36	39.27	1133.1	163	0.03248
912	54	7	4.36	39.27	1133.7	152	0.03202
963	42	19	4.48	40.34	1194.9	186	0.03123
963	48	13	4.48	40.34	1196.2	172	0.03078
963	54	7	4.48	40.34	1196.9	160	0.03034
979	42	19	4.52	40.69	1218.4	189	0.03070
1013	54	37	3.76	41.40	1256.7	207	0.03011
1013	72	19	3.76	41.40	1257.4	182	0.02924
1014	42	19	4.60	41.40	1258.1	196	0.02966
1014	48	13	4.60	41.40	1259.4	181	0.02923
1014	54	7	4.60	41.40	1259.4	169	0.02882
1139	54	37	3.99	43.92	1427.4	231	0.02677
1139	72	19	3.99	43.92	1428.8	202	0.02599
1185	42	19	4.97	44.75	1487.9	229	0.02537
1185	48	13	4.97	44.75	1488.6	211	0.02501
1263	54	37	4.20	46.25	1586.0	256	0.02415
1263	72	19	4.20	46.25	1587.4	223	0.02345
1266	54	37	4.21	46.30	1586.0	257	0.02409
1266	72	19	4.21	46.30	1587.4	225	0.02339
1393	54	37	4.41	48.56	1743.3	282	0.02190
1393	72	19	4.41	48.56	1748.0	247	0.02126
1521	54	37	4.61	50.75	1905.9	308	0.02006
1521	72	19	4.61	50.75	1906.6	270	0.01947

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Conductor Data Sheet

Aluminum Alloy Conductors Steel Reinforced-AACSR

Cross Section	Nominal Area, mm ²		Stranding Design Aluminum-alloy/Steel	Diameter of Alloy	Diameter of Steel	Nominal O.D. of Conductor	Nominal Weight	Rated Strength	Maximum DC Resistance at 20°C
mm ²	Alloy	Steel		mm	mm	mm	kg/km	kN	Ω/km
163	140	23	26/7	2.62	2.04	16.6	565	75	0.2401
173	140	33	30/7	2.44	2.44	17.1	643	87.4	0.2406
186	160	26	26/7	2.8	2.18	17.7	646	85.6	0.2103
198	160	38	30/7	2.61	2.61	18.3	736	106	0.2102
209	180	29	26/7	2.97	2.31	18.8	731	95.1	0.1869
222	180	42	30/7	2.76	2.76	19.3	823	112	0.188
232	200	32	26/7	3.13	2.43	19.8	805	106	0.1683
247	200	47	30/7	2.91	2.91	20.4	915	124	0.1691
260	224	36	26/7	3.31	2.57	21	901	118	0.1505
276	224	52	30/7	3.08	3.08	21.6	1025	139	0.151
291	250	41	26/7	3.5	2.72	22.2	1008	129	0.1346
308	250	58	30/7	3.26	3.26	22.8	1149	156	0.1348
326	280	46	26/7	3.7	2.88	23.4	1127	144	0.1204
345	280	65	30/7	3.45	3.45	24.2	1286	171	0.1203
367	315	52	26/7	3.93	3.06	24.9	1272	163	0.1067
387	315	72	30/19	3.66	2.2	25.6	1438	190	0.1069
413	355	58	26/7	4.17	3.24	26.4	1430	183	0.0948
436	355	81	30/19	3.88	2.33	27.2	1614	211	0.09513
465	400	65	26/7	4.43	3.45	28.1	1616	207	0.084
491	400	91	30/19	4.12	2.47	28.8	1818	237	0.08437
509	450	59	54/19	3.26	1.98	29.5	1706	215	0.07505
563	500	63	54/19	3.43	2.06	30.9	1878	229	0.06779
631	560	71	54/19	3.63	2.18	32.7	2104	257	0.06053
710	630	80	54/19	3.85	2.31	34.6	2365	286	0.05381
800	710	90	54/19	4.09	2.45	36.8	2664	322	0.04768
901	800	101	54/19	4.34	2.6	39	3003	363	0.04234
973	900	73	84/19	3.69	2.21	40.6	3060	355	0.03766
1081	1000	81	84/19	3.89	2.33	42.8	3400	391	0.03388
1211	1120	91	84/19	4.12	2.47	45.3	3816	439	0.03021
1352	1250	102	84/19	4.35	2.61	47.8	4255	490	0.02710

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Overseas References

Country	Total Length
Chile	5300 km
Peru	1510 km
Panama	620 km
Australia	3600 km
Kenya	1250 km
Nigeria	4100 km
Saudi Arabia	2100 km
Thailand	5200 km
Pakistan	975 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	± 800 kV	Xiangjiaba to Shanghai DC UHV power transmission example project
China	± 800 kV	Jinping to Sunan DC UHV power transmission project
China	± 800 kV	Yunnan to Guangdong DC UHV power transmission project

Large span

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

ZTT CABLE

ZTT is a leading and global manufacturer of cable systems, which provides package solutions for telecommunication and power applications around the world. With its rich heritage of highly advanced R&D results, ZTT owns the cutting-edge technology within the industry.

ZTT was established in 1992 and became a listed company in 2002. Up to now, ZTT has developed to be a Group Company with 26 subsidiaries in China. 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.

ZTT has always committed to be market-oriented, meeting various demands of our customers and providing economical & reliable solutions. With innovative product design, ZTT can also guarantee the high-end engineering capabilities and life cycle maintenance services.

