

PRODUCT CATALOG – ACSR (Aluminum Conductor, Steel Reinforced)

ASTM CONDUCTOR SIZES															
Code Word	Size (AWG or KCM)	Stranding (Al/St)	Diameter (inches)				Weight Per 1000 ft (Lbs)			Content %		Rated Strength (Lbs)	Resistance ¹		Current Rating ² (Amps)
			Indiv. Al	Wires Stl	Steel Core	Complete Cable	Al	Stl	Total	Al	Stl		Ohms/1000 ft DC @ 20 °C	AC @ 75 °C	
Turkey	6	6/1	.0661	.0661	.0661	.198	24.5	11.6	36.1	67.90	32.10	1,190	.641	.806	105
Swan	4	6/1	.0834	.0834	.0834	.250	39.0	18.4	57.4	67.90	32.10	1,860	.403	.515	140
Swanate	4	7/1	.0772	.1029	.1029	.257	39.0	28.0	67.0	58.13	41.87	2,360	.399	.519	140
Sparrow	2	6/1	.1052	.1052	.1052	.316	62.0	29.3	91.3	67.90	32.10	2,850	.254	.332	184
Sparate	2	7/1	.0974	.1299	.1299	.325	62.0	44.7	106.7	58.13	41.87	3,640	.251	.338	184
Robin	1	6/1	.1181	.1181	.1181	.354	78.2	36.9	115.1	67.90	32.10	3,550	.201	.268	212
Raven	1/0	6/1	.1327	.1327	.1327	.398	98.7	46.6	145.3	67.90	32.10	4,380	.159	.217	242
Quail	2/0	6/1	.1489	.1489	.1489	.447	124.3	58.7	183.0	67.90	32.10	5,300	.126	.176	276
Pigeon	3/0	6/1	.1672	.1672	.1672	.502	156.7	74.0	230.7	67.90	32.10	6,620	.100	.144	315
Penguin	4/0	6/1	.1878	.1878	.1878	.563	197.7	93.4	291.1	67.90	32.10	8,350	.0795	.119	357
Waxwing	266.8	18/1	.1217	.1217	.1217	.609	250.3	39.2	289.5	86.45	13.55	6,880	.0643	.0787	449
Partridge	266.8	26/7	.1013	.0788	.2364	.642	251.7	115.6	367.2	68.53	31.47	11,300	.0637	.0779	475
Ostrich	300.0	26/7	.1074	.0835	.2505	.680	282.9	129.8	412.7	68.53	31.47	12,700	.0567	.0693	492
Merlin	336.4	18/1	.1367	.1367	.1367	.683	315.8	49.5	365.2	86.45	13.55	8,680	.0510	.0625	519
Linnet	336.4	26/7	.1137	.0884	.2652	.720	317.1	145.4	462.5	68.53	31.47	14,100	.0505	.0618	529
Oriole	336.4	30/7	.1059	.1059	.3117	.741	318.2	208.9	527.1	60.35	39.65	17,300	.0502	.0613	535
Chickadee	297.5	18/1	.1486	.1486	.1486	.743	373.1	58.5	431.6	86.45	13.55	9,940	.0432	.0529	576
Brant	397.5	24/7	.1287	.0858	.2574	.772	375.0	137.0	512.0	73.23	26.77	14,600	.0430	.0526	584
Ibis	397.5	26/7	.1236	.0961	.2883	.783	374.7	171.9	546.6	68.53	31.47	16,300	.0428	.0523	587
Lark	397.5	30/7	.1151	.1151	.3453	.806	375.8	246.8	622.6	60.35	39.65	20,300	.0425	.0519	594
Pelican	477.0	18/1	.1628	.1628	.1628	.814	447.8	70.2	518.0	86.45	13.55	11,800	.0360	.0442	646
Flicker	477.0	24/7	.1410	.0940	.2820	.846	450.1	164.4	614.5	73.23	26.77	17,200	.0358	.0439	655
Hawk	477.0	26/7	.1354	.1053	.3159	.858	449.6	206.4	656.0	68.53	31.47	19,500	.0356	.0436	659
Hen	477.0	30/7	.1261	.1261	.3783	.883	451.1	296.2	747.3	60.35	39.65	23,800	.0354	.0433	666
Osprey	556.5	18/1	.1758	.1758	.1758	.879	522.2	81.8	604.1	86.45	13.55	13,700	.0308	.0379	711
Parakeet	556.5	24/0	.1523	.1015	.3045	.914	525.1	191.7	716.9	73.23	26.77	19,800	.0307	.0376	721
Dove	556.5	26/7	.1463	.1138	.3414	.927	525.0	241.0	766.0	68.53	31.47	22,600	.0306	.0375	726
Eagle	556.5	30/7	.1362	.1362	.4086	.953	526.3	345.6	871.8	60.35	39.65	27,800	.0303	.0372	734
Peacock	605.0	24/7	.1588	.1059	.3177	.953	570.9	208.7	779.6	73.23	26.77	21,600	.0282	.0346	760
Squab	605.0	26/7	.1525	.1186	.3558	.966	570.4	261.8	832.2	68.53	31.47	24,300	.0281	.0345	765
Wood Duck	605.0	30/7	.1420	.1420	.4260	.994	572.0	375.6	947.7	60.35	39.55	28,900	.0279	.0342	774
Teal	605.0	30/19	.1420	.0852	.4260	.994	572.0	367.4	939.4	60.89	39.11	30,000	.0279	.0342	773
Kingbird	636.0	18/1	.1880	.1880	.1880	.940	597.2	93.6	690.8	86.45	13.55	15,700	.0270	.0332	773
Swift	636.0	36/1	.1329	.1329	.1329	.930	596.9	46.8	643.7	92.80	7.20	13,800	.0271	.0334	769
Rook	636.0	24/17	.1628	.1085	.3255	.977	600.0	219.1	819.1	73.23	26.77	22,600	.0268	.0330	784

ASTM CONDUCTOR SIZES

Code Word	Size (AWG or KCM)	Stranding (Al/St)	Diameter (inches)			Complete Cable	Weight Per 1000 ft (Lbs)			Content %		Rated Strength (Lbs)	Resistance ¹ Ohms/1000 ft		Current Rating ² (Amps)
			Indiv. Al	Wires Stl	Steel Core		Al	Stl	Total	Al	Stl		DC @ 20 °C	AC @ 75 °C	
Grosbeak	636.0	26/7	.1564	.1216	.3648	.990	599.9	275.2	875.1	68.53	31.47	25,200	.0267	.0328	789
Scoter	636.0	30/7	.1456	.1456	.4368	1.019	601.4	394.9	996.3	60.35	39.55	30,400	.0256	.0325	798
Egret	636.0	30/19	.1456	.0874	.4370	1.019	601.4	386.6	988.0	60.89	39.11	31,500	.0266	.0326	798
Flamingo	666.6	24/7	.1667	.1111	.3333	1.000	629.1	229.7	858.8	73.23	26.77	23,700	.0256	.0315	807
Gannet	666.6	26/7	.1601	.1245	.3735	1.014	628.7	288.5	917.1	68.53	31.47	26,400	.0255	.0313	812
stilt	715.5	24/7	.1727	.1151	.3453	1.036	675.2	246.5	921.8	73.23	26.77	25,500	.0239	.0294	844
Starling	715.5	26/7	.1659	.1190	.3870	1.051	675.0	309.7	984.7	68.53	31.47	28,400	.0238	.0292	849
Redwing	715.5	30/19	.1544	.0926	.4630	1.081	676.3	434.0	1110	60.89	39.11	34,600	.0236	.0290	859
Coot	795.0	36/1	.1486	.1486	1.486	1.040	746.2	58.5	804.7	92.80	7.20	16,800	.0217	.0268	884
Cuckoo	795.0	24/7	.1820	.1213	.3639	1.092	749.9	273.8	1024	73.23	26.77	27,900	.0215	.0265	901
Drake	795.0	26/7	.1749	.1360	.4080	1.108	750.3	344.2	1094	68.53	31.47	31,500	.0214	.0263	907
Tern	795.0	45/7	.1329	.0886	.2658	1.063	749.8	146.1	895.9	83.69	16.31	22,100	.0216	.0269	887
Condor	795.0	54/7	.1213	.1213	.3639	1.092	749.5	273.6	1023	73.25	26.75	28,200	.0215	.0272	889
Mallard	795.0	30/19	.1628	.0977	.4885	1.140	751.9	483.1	1235	60.89	39.11	38,400	.0213	.0261	918
Ruddy	900.0	45/7	.1414	.0943	.2829	1.131	848.7	165.5	1014	83.69	16.31	24,400	.0191	.0239	958
Canary	900.0	54/7	.1291	.1291	.3873	1.162	849.0	309.9	1159	73.25	26.75	31,900	.0190	.0241	961
Rail	954.0	45/7	.1456	.0971	.2913	1.165	899.9	175.5	1075	83.69	16.31	25,900	.0180	.0225	993
Cardinal	954.0	54/7	.1329	.1329	.3987	1.196	899.7	328.4	1228	73.25	26.75	33,800	.0179	.0228	996
Ortolan	1033.5	45/7	.1515	.1010	.3030	1.212	974.3	189.8	1164	83.69	16.31	27,700	.0167	.0209	1043
Curlew	1033.5	54/7	.1383	.1383	.4149	1.245	974.3	355.6	1330	73.25	26.75	36,600	.0165	.0211	1047
Bluejay	1113.0	45/7	.1573	.1049	.3147	1.259	1050	204.8	1255	83.69	16.31	29,800	.0155	.0194	1092
Finch	1113.0	54/19	.1436	.0862	.4310	1.293	1056	376.1	1432	73.75	26.75	39,100	.0154	.0197	1093
Bunting	1192.5	45/7	.1628	.1085	.3255	1.302	1125	219.1	1344	83.69	16.31	32,000	.0144	.0182	1139
Grackle	1192.5	54/19	.1486	.0892	.4460	1.338	1130	402.7	1533	73.75	26.25	41,900	.0144	.0184	1140
Bittern	1272.0	45/7	.1681	.1121	.3363	1.345	1200	233.9	1433	83.69	16.31	34,100	.0135	.0171	1184
Pheasant	1272.0	54/19	.1535	.0921	.4605	1.382	1206	429.3	1635	73.75	26.25	43,600	.0135	.0173	1187
Dipper	1351.5	45/7	.1733	.1155	.3465	1.386	1275	248.3	1525	83.69	16.31	36,200	.0127	.0162	1229
Martin	1351.5	54/19	.1582	.0949	.4745	1.424	1281	455.8	1737	73.75	26.25	46,300	.0127	.0163	1232
Boblink	1431.0	45/7	.1783	.1189	.3567	1.427	1350	263.1	1613	83.69	16.31	38,300	.0120	.0153	1272
Plover	1431.0	54/19	.1628	.0977	.4885	1.465	1357	483.1	1840	73.75	26.25	49,100	.0120	.0155	1275

ASTM CONDUCTOR SIZES

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			Indiv. Wires Al	Wires Stl	Steel Core		Al	Stl	Total	Al	Stl		DC @ 20 °C	AC @ 75 °C	
Nuthatch	1510.5	45/7	.1832	.1221	.3663	1.465	1425	277.4	1702	83.69	16.31	40,100	.0114	.0146	1313
Parrot	1510.5	54/19	.1672	.1003	.5015	1.505	1431	509.2	1940	73.75	26.25	51,700	.0114	.0147	1318
Lapwing	1590.0	45/7	.1880	.1253	.3759	1.504	1500	292.2	1793	83.69	16.31	42,200	.0108	.0139	1354
Falcon	1590.0	54/19	.1716	.1030	.5150	1.545	1507	537.0	2044	73.75	26.25	54,500	.0108	.0140	1359
Chukar	1780.0	84/19	.1456	.0874	.4370	1.602	1688	386.6	2075	81.3	18.7	51,000	.0097	.0125	1453
Bluebird	2156.0	84/19	.1602	.0961	.4805	1.762	2044	467.4	2511	81.3	18.7	60,300	.00801	.0105	1623
Kiwi	2167.0	72/7	.1735	.1157	.3471	1.735	2055	248.9	2303	89.2	10.8	49,800	.00801	.0106	1607
Thrasher	2312.0	76/19	.1744	.0814	.4070	1.802	2191	335.4	2527	86.73	13.27	56,700	.00750	.0100	1673
Joree	2515.0	76/19	.1819	.0849	.4245	1.880	2384	364.8	2749	86.73	13.27	61,700	.00689	.00935	1751
Grouse	80.0	8/1	.1000	.1670	.1670	.367	75.1	73.9	148.9	50.56	49.44	5,200	.207	.294	204
Petrel	101.8	12/7	.0921	.0921	.2763	.460	96.0	158.0	254.0	37.79	62.21	10,400	.158	.250	237
Minorca	110.8	12/7	.0961	.0961	.2883	.481	104.5	172.0	276.6	37.79	62.21	11,300	.145	.235	248
Leghorn	134.6	12/7	.1059	.1059	.3177	.530	127.0	208.9	335.9	37.79	62.21	13,600	.120	.204	273
Guinea	159.0	12/7	.1151	.1151	.3453	.576	150.0	246.8	396.8	37.79	62.21	16,000	.101	.181	297
Dotterel	176.9	12/7	.1214	.1214	.3642	.607	166.8	274.5	441.4	37.79	62.21	17,300	.0911	.169	312
Dorking	190.8	12/7	.1261	.1261	.3783	.631	180.0	296.2	476.2	37.79	62.21	18,700	.0845	.160	324
Brahma	203.2	16/19	.1127	.0977	.4885	.714	191.7	485.0	676.7	28.33	71.67	28,400	.0764	.155	341
Cochin	211.3	12/7	.1327	.1327	.3981	.664	199.3	3280	527.4	37.79	62.21	20,700	.0763	.150	340

- Resistance is calculated using ASTM standard increments of stranding, and metal conductivities of 61.2% IACS for EC (1350), and 8% IACS for steel. AC (60 Hz) resistance includes current dependent hysteresis loss factor for 1 and 3 layer constructions.
- Current ratings are based on 75 °C conductor temperature, 25 °C ambient. 2 ft/s wind, 96 watts/sq. foot sun, 0.5 coefficients of emissivity and absorption.

ASTM CONDUCTOR SIZES - METRIC UNITS

Code Word	Nominal Size		Stranding (Al/Stl)	Diameter (mm) Individual Wires		Steel Core	Complete Cable	Weight ¹ (kg/km)			Content %		Rated Strength ² kg	Resistance ³ ohms/km		Current Rating ⁴ (Amps)
	(AWG or KCM)	(mm ²)		Al	Stl			Al	Stl	Total	Al	Stl		DC@ 20 °C	AC @ 75 °C	
Turkey	6	13.30	6/1	1.679	1.679	1.68	5.04	36.4	17.2	53.7	67.90	32.10	540	2.10	2.64	105
Swan	4	21.15	6/1	2.118	2.118	2.12	6.36	58.0	27.4	85.4	67.90	32.10	844	1.32	1.69	140
Swanate	4	21.15	7/1	1.961	2.614	2.61	6.54	58.0	41.7	99.7	58.13	41.87	1070	1.31	1.70	140
Sparrow	2	33.63	6/1	2.672	2.672	2.67	8.02	92.3	43.6	135.9	67.90	32.10	1293	.832	1.09	184
Sparate	2	33.63	7/1	2.474	3.299	3.30	8.25	92.3	66.5	158.8	58.13	41.87	1651	.823	1.11	184
Robin	1	42.41	6/1	3.000	3.000	3.00	9.00	116.3	55.0	171.4	67.90	32.10	1615	.660	.878	212
Raven	1/0	53.51	6/1	3.371	3.371	3.37	10.11	146.9	69.4	216.2	67.90	32.10	1987	.523	.711	242
Quail	2/0	67.44	6/1	3.782	3.782	3.78	11.35	184.9	87.4	272.3	67.90	32.10	2404	.415	.579	276
Pigeon	3/0	85.03	6/1	4.247	4.247	4.25	12.47	233.1	110.2	343.3	67.90	32.10	3003	.329	.474	315
Penguin	4/0	107.22	6/1	4.770	4.770	4.77	14.31	294.1	139.0	433.1	67.90	32.10	3787	.261	.390	357
Waxwing	266.8	135.19	18/1	3.091	3.091	3.09	15.46	372.4	58.4	430.7	86.45	13.55	3121	.211	.259	449
Partridge	266.8	135.19	26/7	2.573	2.002	6.00	16.30	374.5	172.0	546.5	68.53	31.47	5126	.209	.255	457
Ostrich	300.0	152.01	26/17	2.728	2.121	6.36	17.27	421.0	193.1	614.0	68.53	31.47	5761	.186	.227	492
Merlin	336.4	170.46	18/1	3.472	3.472	3.47	17.36	469.8	73.6	543.5	86.45	13.55	3937	.167	.205	519
Linnet	336.4	170.46	26/7	2.891	2.248	6.74	18.29	471.8	216.4	688.2	68.53	31.47	6396	.166	.203	529
Oriole	336.4	170.46	30/7	2.690	2.690	8.07	18.83	473.4	310.9	784.3	60.35	39.65	7847	.165	.201	535
Chickadee	297.5	201.42	18/1	3.774	3.774	3.77	18.87	555.2	87.0	642.2	86.45	13.55	4509	.142	.174	576
Brant	397.5	201.42	24/7	3.269	2.179	6.54	19.61	558.0	203.9	761.9	73.23	26.77	6622	.141	.172	584
Ibis	397.5	201.42	26/7	3.139	2.441	7.32	19.88	557.5	255.7	813.3	68.53	31.47	7394	.140	.172	587
Lark	397.5	201.42	30/7	2.924	2.924	8.77	20.46	559.2	367.2	926.5	60.35	39.65	9208	.139	.170	594
Pelican	477.0	241.70	18/1	4.135	4.135	4.14	20.68	666.4	104.4	770.8	86.45	13.55	5352	.118	.144	646
Flicker	477.0	241.70	24/7	3.581	2.388	7.16	21.49	669.8	244.7	914.9	73.23	26.77	7802	.117	.144	655
Hawk	477.0	241.70	26/7	3.442	2.677	8.02	21.78	669.1	307.1	976.1	68.53	31.47	8845	.117	.143	659
Hen	477.0	241.70	30/17	3.203	3.203	9.61	22.42	671.2	440.8	1112.0	60.35	39.65	10795	.116	.142	666
Osprey	556.5	281.98	18/1	4.465	4.465	4.47	22.33	777.1	121.8	898.8	86.45	13.55	6214	.101	.124	711
Parakeet	556.5	281.98	24/7	3.868	2.578	7.73	23.21	781.4	285.3	1067	73.23	26.77	8981	.101	.123	721
Dove	556.5	281.98	26/7	3.716	2.891	8.67	23.54	781.1	358.6	1140	68.53	31.47	10251	.100	.123	726
Eagle	556.5	281.98	30/7	3.459	3.459	10.38	24.22	783.1	514.2	1297	60.35	39.65	12610	.0996	.122	734
Peacock	605.0	306.56	24/7	4.034	2.690	8.07	24.20	849.5	310.6	1160	73.23	26.77	9789	.0926	.114	760
Squab	605.0	306.56	26/7	3.874	3.012	9.4	24.53	848.7	389.5	1238	68.53	31.47	11022	.0922	.113	765

ASTM CONDUCTOR SIZES - METRIC UNITS

Code Word	Nominal Size		Diameter (mm) Individual Wires				Weight ¹ (kg/km)			Content %		Rated Strength ² kg	Resistance ³ ohms/km		Current Rating ⁴ (Amps)	
	(AWG or KCM)	(mm ²)	Stranding (Al/Stl)	At	Stl	Steel Core	Complete Cable	At	Stl	Total	At		Stl	DC@ 20 °C		AC @ 75 °C
Wood Duck	605.0	306.6	30/7	3.607	3.607	10.82	25.25	851.2	558.9	1410	60.35	39.55	13109	.0916	.112	774
Teal	605.0	306.6	30/19	3.607	2.164	10.82	25.25	851.2	546.7	1398	60.89	39.11	13608	.0916	.112	773
Kingbird	636.0	322.3	18/1	4.775	4.775	4.78	23.88	888.6	139.3	1028	86.45	13.55	7121	.0885	.109	773
Swift	636.0	322.3	36/1	3.376	3.376	3.38	23.63	888.2	69.6	957.8	92.80	7.20	6260	.0888	.110	769
Rook	636.0	322.3	24/7	4.135	2.756	8.27	24.81	892.9	326.0	1219	73.23	26.77	10251	.0881	.108	784
Grosbeak	636.0	322.3	26/17	3.973	3.089	9.27	25.16	892.7	409.5	1302	68.53	31.47	11430	.0877	.108	789
Scoter	636.0	322.3	30/7	3.698	3.698	11.09	25.89	894.9	587.6	1483	60.35	39.55	13789	.0871	.107	798
Egret	636.0	322.3	30/19	3.698	2.220	11.10	25.89	894.9	575.3	1470	60.89	39.11	14288	.0872	.107	798
Flamingo	666.6	337.8	24/17	4.234	2.822	8.47	25.40	936.2	341.8	1278	72.23	26.77	10750	.0840	.103	807
Gannet	666.6	337.8	26/7	4.067	3.162	9.49	25.75	935.5	429.2	1365	68.53	31.47	11975	.0837	.103	812
stilt	715.5	362.5	24/17	4.387	2.924	8.77	26.32	1005	366.9	1372	73.23	26.77	11567	.0783	.0963	844
Starling	715.5	362.5	26/7	4.214	3.277	9.83	26.69	1004	460.8	1465	68.53	31.47	12882	.0780	.0958	849
Redwing	715.5	362.5	30/19	3.922	2.352	11.76	27.45	1006	645.8	1652	60.89	39.11	15694	.0775	.0951	859
Coot	795.0	402.8	36/1	3.774	3.774	3.77	26.42	1110	87.0	1197	92.80	7.20	7260	.0711	.0881	884
Cuckoo	795.0	402.8	24/17	4.623	3.081	9.24	27.73	1116	407.4	1523	73.23	26.77	12655	.0705	.0869	901
Drake	795.0	402.8	26/7	4.442	3.454	10.36	28.13	1116	512.2	1629	68.53	31.47	14288	.0702	.0864	907
Tern	795.0	402.8	45/7	3.376	2.250	6.75	27.01	1116	217.4	1333	83.69	16.31	10024	.0710	.0884	887
Condor	795.0	402.8	54/7	3.081	3.081	9.24	27.73	1115	407.0	1522	73.25	26.75	12791	.0705	.0894	889
Mallard	795.0	402.8	30/19	4.135	2.482	12.41	28.95	1119	718.9	1838	60.89	39.11	17418	.0697	.0857	918
Ruddy	900.0	456.0	45/7	3.592	2.395	7.19	28.74	1263	246.2	1509	83.69	16.31	11068	.0627	.0783	958
Canary	900.0	456.0	54/17	3.279	3.279	9.84	29.51	1263	461.1	1724	73.25	26.75	14470	.0622	.0791	961
Rail	954.0	483.4	45/17	3.698	2.466	7.40	29.59	1339	261.1	1600	83.69	16.31	11748	.0592	.0740	993
Cardinal	954.0	483.4	54/7	3.376	3.376	10.13	30.38	1339	488.6	1827	73.25	26.75	15331	.0587	.0747	996
Ortoian	1033.5	523.7	45/7	3.848	2.565	7.70	30.78	1450	282.5	1732	83.69	16.31	12564	.0546	.0685	1043
Curlow	1033.5	523.7	54/7	3.513	3.513	10.54	31.62	1450	529.1	1979	73.25	26.75	16601	.0542	.0691	1047
Bluejay	1113.0	564.0	45/17	3.995	2.664	7.99	31.97	1563	304.7	1868	83.69	16.31	13517	.0507	.0637	1092
Finch	1113.0	564.0	54/19	3.647	2.189	10.95	32.83	1571	559.6	2130	73.25	26.75	17735	.0506	.0646	1093
Bunting	1192.5	604.2	45/7	4.135	2.756	8.27	33.08	1674	326.0	2000	83.69	16.31	14515	.0474	.0597	113
Grackle	1192.5	604.2	54/19	3.774	2.266	11.33	33.98	1682	599.2	2281	73.75	26.25	19005	.0472	.0604	1140
Bittern	1272.0	644.5	45/7	4.270	2.847	8.54	34.16	1785	348.0	2133	83.69	16.31	15467	.0444	.0561	1184
Pheasant	1272.0	644.5	54/19	3.899	2.339	11.70	35.09	1795	638.8	2434	73.75	26.25	19777	.0443	.0568	1187
Dipper	1351.5	684.8	45/17	4.402	2.934	8.80	35.21	1897	369.4	2266	83.69	16.31	16420	.0418	.0530	1229
Martin	1351.5	684.8	54/19	4.018	2.410	12.05	36.16	1906	678.3	2585	73.75	26.25	21001	.0417	.0536	1232
Bobolink	1431.0	725.1	45/7	4.529	3.020	9.06	36.23	2008	391.5	2400	83.69	16.31	17372	.0395	.0502	1272
Plover	1431.0	725.1	54/19	4.135	2.482	12.41	37.22	2019	718.9	2738	73.75	26.25	22271	.0394	.0507	1275
Nuthatch	1510.5	765.4	45/17	4.653	3.101	9.30	37.22	2120	412.8	2533	83.69	16.31	18189	.0374	.0478	1313
Parrot	1510.5	765.4	54/19	4.247	2.548	12.74	38.22	2129	757.7	2887	73.75	26.25	23451	.0373	.0482	1318
Lapwing	1590.0	805.7	45/7	4.775	3.183	9.55	38.20	2233	434.8	2667	83.69	16.31	19141	.0355	.0456	1354
Falcon	1590.0	805.7	54/19	4.359	2.616	13.08	39.23	2243	799.0	3042	73.75	26.25	24721	.0354	.0459	1359
Chulkar	1780.0	901.9	84/19	3.698	2.220	11.10	40.69	2512	575.3	3087	81.30	18.70	23133	.0318	.0409	1453

ASTM CONDUCTOR SIZES - METRIC UNITS

Code Word	Nominal Size		Stranding (Al/Stl)	Diameter (mm) Individual Wires				Weight ¹ (kg/km)			Content %		Rated Strength ² kg	Resistance ³ ohms/km		Current Rating ⁴ (Amps)
	(AWG or KCM)	(mm ²)		At	Stl	Steel Core	Complete Cable	At	Stl	Total	At	Stl		DC@ 20 °C	AC @ 75 °C	
	Bluebird	2156.0		1092	84/19	4.069	2.441	12.20	44.76	3041	695.5	3736		81.30	18.70	
Kiwi	2167.0	1098	72/7	4.407	2.939	8.82	44.07	3057	370.3	3427	89.20	10.80	22589	.0263	.0349	1607
Thrasher	2312.0	1171	76/19	4.430	2.068	10.34	45.78	3261	499.0	3760	86.73	13.27	25719	.0246	.0329	1673
Joree	2515.0	1274	76/19	4.620	2.156	10.78	47.74	3547	542.9	4090	86.73	13.27	27987	.0226	.0307	1751
High Mechanical Strength																
Grouse	80.0	40.54	8/1	2.540	4.242	4.24	9.32	111.7	109.9	221.6	50.56	49.44	2359	.0678	.0964	204
Petrel	101.8	51.58	12/7	2.339	2.339	7.02	11.70	142.9	235.1	378.0	37.79	62.21	4717	.0519	.0821	237
Minorca	110.8	56.14	12/7	2.441	2.441	7.32	12.20	155.6	256.0	411.6	37.79	62.21	5126	.0477	.0771	248
Leghorn	134.6	68.20	12/7	2.690	2.690	8.07	13.45	188.9	310.9	499.8	37.79	62.21	6169	.0393	.0668	273
Guinea	159.0	80.57	12/7	2.924	2.924	8.77	14.62	223.2	367.2	590.4	37.79	62.21	7257	.0333	.0595	297
Dofterel	176.9	89.64	12/7	3.084	3.084	9.25	15.42	248.2	408.5	656.8	37.79	62.21	7847	.0299	.0554	312
Dorking	190.8	96.68	12/7	3.203	3.203	9.61	16.01	267.8	440.8	708.6	37.79	62.21	8482	.0277	.0526	324
Brahma	203.2	103.0	16/19	2.863	2.482	2.41	18.13	285.3	721.7	1007.0	28.33	71.67	12882	.0251	.0509	341
Cochin	211.3	107.1	12/7	3.371	3.371	0.11	16.85	296.6	488.1	784.7	37.79	62.21	9389	.0251	.0492	340

- Weights are calculated using ASTM standard increments of stranding.
- Rated strengths are calculated by ASTM methods and converted to metric units after rounding.
- Resistance is calculated using ASTM standard increments of stranding, and metal conductivities of 61.2% IACS for EC (1350) and 8% IACS for steel. AC (60 HZ) resistance includes current-dependent hysteresis loss factor for 1 and 3 layer constructions.
- Current ratings are based on 75 °C conductor temperature, 25 °C ambient, 0.61 m/s wind, 1033 watts/sq meter sun, 0.5 coefficients of emissivity and absorption.

ASTM CONDUCTOR SIZES - METRIC UNITS

Conductor Size mm ²	Stranding Aluminum		Steel		Aluminum Area mm ²	Steel Area mm ²	Total Area mm ²	Approx Overall Diameter mm	Linear Weight Kg/km	Rated Strength * daN	Maximum DC Resistance At 20 °C ? /km
	No. of Wires	Dia mm	No. of Wires	Diameter mm							
12.5	6	1.63	1	1.63	12.52	2.086	14.60	4.89	50.6	499	2.2838
16.0	6	1.84	1	1.84	1595	2.657	18.60	5.52	64.5	633	1.7922
20.0	6	2.06	1	2.06	19.99	3.33	23.32	6.18	80.8	783	1.4298
20.0	7	1.91	1	2.55	20.04	5.10	25.14	6.37	94.8	1000	1.4256
25.0	6	2.30	1	2.30	24.92	4.15	29.07	6.90	100	954	1.1470
25.0	7	2.13	1	2.84	24.93	6.33	31.26	7.10	117	1230	1.1463
31.5	6	2.59	1	2.59	31.60	5.26	36.86	7.77	127	1190	0.9045
31.5	7	2.39	1	3.19	31.39	7.99	39.38	7.97	148	1510	0.9105
40.0	6	2.91	1	2.91	39.89	6.65	46.54	8.73	161	1490	0.7165
50.0	6	3.26	1	3.26	50.05	8.34	58.39	9.78	202	1820	0.5709
63.0	6	3.66	1	3.66	63.09	10.51	73.60	10.98	255	2210	0.4529
80.0	6	4.12	1	4.12	79.95	13.32	93.27	12.36	323	2770	0.3574
100.0	6	4.61	1	4.61	100.10	16.68	116.78	13.83	405	3470	0.2855
125.0	18	2.97	1	2.97	124.64	6.92	131.56	14.85	398	2890	0.2315
125.0	24	2.58	7	1.72	125.41	16.25	141.66	15.48	475	4140	0.2301
125.0	26	2.47	7	1.92	124.52	20.26	144.78	15.64	504	4710	0.2317
140.0	18	3.15	1	3.15	140.20	7.80	148.00	15.75	448	3180	0.2058
140.0	24	2.73	7	1.82	140.41	18.20	158.61	16.38	532	4630	0.2055
140.0	26	2.62	7	2.04	140.10	22.87	162.97	16.60	567	5210	0.2059
160.0	18	3.36	1	3.36	159.52	8.86	167.88	16.80	509	3610	0.1809
160.0	24	2.91	7	1.94	159.54	20.68	180.22	17.46	604	5210	0.1809
160.0	26	2.80	7	2.18	160.01	26.11	186.12	17.74	648	5900	0.1803
160.0	30	2.61	7	2.61	160.42	37.43	197.85	18.27	739	7260	0.1803
180.0	18	3.57	1	3.57	180.08	10.00	190.08	17.85	575	3960	0.1602
180.0	24	3.09	7	2.06	179.89	23.32	203.21	18.54	681	5820	0.1604
180.0	26	2.97	7	2.31	180.03	29.32	209.35	18.81	729	6540	0.1603
180.0	30	2.76	7	2.76	179.39	41.86	221.25	19.32	826	8120	0.1612
200.0	18	3.76	1	3.76	199.76	11.10	210.86	18.80	638	4390	0.1444
200.0	24	3.26	7	2.17	200.22	25.88	226.10	19.55	758	6470	0.1441
200.0	26	3.13	7	2.43	199.95	32.45	232.40	19.81	808	7180	0.1443
200.0	30	2.91	7	2.91	199.42	46.53	245.95	20.37	919	8960	0.1450
224.0	18	3.98	1	3.98	223.82	12.43	236.25	19.90	715	4850	0.1289
224.0	24	3.45	7	2.30	224.24	29.07	253.31	20.70	849	7160	0.1287
224.0	26	3.31	7	2.57	223.61	36.29	259.90	20.95	904	8030	0.1290
224.0	30	3.08	7	3.08	223.40	52.13	275.53	21.56	1029	9800	0.1295
250.0	18	4.21	1	4.21	250.44	13.91	264.35	21.05	800	5420	0.1152
250.0	24	3.64	7	2.43	249.62	32.45	282.07	21.85	946	7900	0.1156

* Rated tensile strength for zinc coating Class A

ASTM CONDUCTOR SIZES - METRIC UNITS

Conductor Size mm ²	Stranding				Aluminum Area mm ²	Steel Area mm ²	Total Area mm ²	Approx Overall Diameter mm	Linear Weight Kg/km	Rated Strength * daN	Maximum DC Resistance at 20 °C ? /km
	Aluminum No. of Wires	Aluminum Dia mm	No. of Wires	Steel Diameter mm							
250	26	3.50	7	2.72	250.02	40.65	290.67	22.16	1011	8990	0.1154
250	30	3.26	7	3.26	250.28	58.40	308.68	22.82	1153	11000	0.1155
280	18	4.45	1	4.45	279.81	15.54	295.35	22.25	893	6060	0.1031
280	24	3.85	7	2.57	279.26	36.29	315.55	23-11	1058	8750	0.1033
280	26	3.70	7	2.88	279.42	45.58	325.00	23.44	1131	9980	0.1032
280	30	3.45	7	3.45	280.30	65.40	345.70	24.15	1291	12300	0.1032
315	18	4.72	1	4.72	314.80	17.49	332.29	23.60	1005	6820	0.0916
315	24	4.09	7	2.73	315.15	40.95	356.10	24.55	1194	9870	0.0915
315	26	3.93	7	3.06	315.23	51.45	366.68	24.90	1277	11000	0.0915
315	30	3.66	19	2.20	315.46	72.19	387.65	25.64	1443	13800	0.0917
355	24	4.34	7	2.89	354.86	45.89	400.75	26.03	1343	11100	0.0815
355	26	4.17	7	3.24	354.91	57.68	412.59	26.40	1435	12300	0.0813
355	30	3.88	19	2.33	354.53	80.97	435-50	27.17	1620	15100	0.0816
400	24	4.61	7	3.07	400.39	51.79	452.18	27.65	1515	12300	0.0722
400	26	4.43	7	3.45	400.54	65.40	465.94	28.07	1622	14000	0.0720
400	30	4.12	19	2.47	399.75	91.00	490.75	28.83	1824	17000	0.0723
450	45	3.57	7	2.38	450.21	31.12	481.33	28.56	1492	10700	0.0641
450	54	3.26	7	3.26	450.50	58.40	508-90	29.34	1706	13900	0.0643
500	45	3.76	7	2.51	499.41	34.62	534.03	30.09	1656	11900	0.0577
500	54	3.43	7	3.43	498.71	64.64	563.35	30.87	1888	15400	0.0581
560	45	3.98	7	2.65	559.56	38.59	598.15	31.83	1854	13200	0.0515
560	54	3.63	19	2.18	558.57	70.88	629.45	32.68	2112	17200	0.0519
630	45	4.22	7	2.81	629.10	43.40	672.50	33.75	2084	14800	0.0458
630	54	3.85	19	2.31	628.33	79.59	707.92	34.65	2375	18900	0.0461
710	45	4.48	7	2.99	708.98	49.12	758.10	35.85	2351	16700	0.0407
710	54	4.09	19	2.45	709.10	89.53	798.63	36.79	2678	21300	0.0408
800	45	4.76	7	3.17	800.38	55.22	855.60	38.07	2652	18600	0.0360
800	54	4.34	19	2.60	798.44	100.82	899.26	39.04	3015	24000	0.0363
900	72	3.99	7	2.66	899.80	38.88	938.68	39.90	2812	18200	0.0322
900	84	3.69	19	2.21	897.85	72.85	970.70	40.57	3073	22500	0.0323
1000	72	4.21	7	2.81	1001.77	43.39	1045.16	42.11	3131	20200	0.0289
1000	84	3.89	19	2.33	997.81	80.97	1078.78	42.77	3416	24500	0.0290
1120	72	4.45	7	2.97	1119.23	48.47	1167.70	44.51	3498	22600	0.0259
1120	76	4.33	19	2.02	1118.56	60.86	1179.42	44.74	3595	24100	0.0259
1120	84	4.12	19	2.47	1119.29	90.99	1210.28	45.31	3833	27500	0.0259
1250	72	4.70	7	3.13	1248.53	53.83	1302.36	46.99	3901	25000	0.0232
1250	76	4.58	19	2.14	1251.45	68.30	1319.75	47.34	4023	27000	0.0231
1250	84	4.35	19	2.61	1247.75	101.60	1349.35	47.85	4274	30700	0.0232

* Rated tensile strength for zinc coating Class A

BRITISH CONDUCTOR SIZES

Code Name	Nom AlArea mm ²	Cu MM ²	Equivalent Area inch ²	Stranding and Wire Diameter				Overall mm	Diameter inch	Area			Steel in&
				Aluminum mm	Aluminum inch	Steel mm	Steel inch			Aluminum mm ²	Aluminum inch ²	mm ²	
Mole		6.5	0.01	6/1.50	6/.0591	1/1.50	1/.0591	4.50	0.177	10.62	0.0165	1.77	0.0027
Squirrel		12.9	0.02	6/2.11	6/.0830	1/2.11	1/.0830	6.33	0.249	20.94	0.0325	3.49	0.0054
Gopher	25	16.1	0.025	6/2.36	6/.0929	1/2.36	1/.0929	7.08	0.279	26.24	0.0407	4.37	0.0068
Weasel	30	19.4	0.03	6/2.59	6/1.020	1/2.59	1/1.020	7.77	0.306	31.61	0.0490	5.27	0.0082
Fox	-	22.6	0.035	6/2.79	6/1.098	1/2.79	1/1.098	8.37	0.330	36.66	0.0568	6.11	0.0095
Ferret	40	25.8	0.04	6/3.00	6/1.181	1/3-00	1/1.181	9.00	0.354	42.41	0.0657	7.07	0.0110
Rabbit	50	32.3	0.05	6/3.35	6/0319	1/3.35	1/1.319	10.05	0.396	52.88	0.0820	8.81	0.0137
Mink	-	38.7	0.06	6/3.66	6/1.442	1/3.66	1/1.442	10.98	0.432	63.18	0.0979	10.53	0.0163
Skunk		38.7	0.06	12/2.59	12/.1022	7/2.59	7/1.022	12.95	0.510	63.48	0.0984	37.03	0.0574
Beaver		45.2	0.07	6/3.99	6/1.569	1/3.99	1/0569	11.97	0.471	74.82	0.1160	12.47	0.0193
Horse	70	45.2	0.07	12/2.79	12/0098	7/2.79	7/1.098	13.95	0.550	73.37	0.1137	42.80	0.0663
Raccoon	-	48.4	0.075	6/4.10	6/1.614	1/4.10	1/1.614	12.30	0.483	79.20	0.1228	13.20	0.0205
Otter		51.6	0.08	6/4.22	6/1.661	1/4.22	1/0661	12.66	0.498	83.88	0.1300	13.98	0.0217
Cat		58.1	0.09	6/4.50	6/0771	1/4.50	1/1.771	13.50	0.531	95.40	0.1479	15.90	0.0247
Hare		64.5	0.10	6/4.72	6/1.858	1/4.72	1/1.858	14.16	0.557	105.0	0.1628	17.50	0.0271
Dog	100	64.5	0.10	6/4.72	6/1.858	7/1.57	7/0.619	14.15	0.557	105.0	0.1628	13.50	0.0209
Hyena	-	64.5	0.10	7/4.39	7/1.727	7/1.93	7/0.759	14.57	0.574	105.8	0.1640	20.44	0.0317
Leopard		80.7	0.125	6/5.28	6/2.078	7/1.75	7/0.693	15.81	0.623	131.3	0.2035	16.80	0.0260
Coyote		80.7	0.125	26/2.54	26/1.001	7/1.91	7/0.750	15.89	0.626	132.1	0.2048	20.09	0.0311
Cougar		80.7	0.125	18/3.05	18/1.195	1/3.05	1/1.195	15.25	0.600	130.3	0.2020	7.24	0.0112
Tiger		80.7	0.125	30/2.36	30/0.929	7/2.36	7/0.929	16.52	0.650	131.1	0.2032	30.59	0.0474
Wolf	150	96.8	0.15	30/2.59	30/1.020	7/2.59	7/0.020	18.13	0.714	158.0	0.2449	36.88	0.0572
	150	97.9	0.15	18/3.35	18/1.319	1/3.35	1/1.319	16.75	0.659	158.7	0.2460	8.80	0.0136
Lynx	175	113.0	0.175	30/2.79	30/1.098	7/2.79	7/1.098	19.53	0.770	183.4	0.2843	42.77	0.0663
	175	113.7	0.176	18/3.61	18/0.422	1/3.61	1/1.422	18.05	0.711	184.3	0.2857	10.24	0.0159
Panther	200	129	0.20	30/3.00	30/1.181	7/3.00	7/0.181	21.00	0.826	212.0	0.3286	49.49	0.0767
Lion	-	145	0.225	30/3.18	30/1.253	7/3.18	7/0.253	22.26	0.876	238.5	0.3697	55.65	0.0863
Bear		161	0.25	30/3.35	30/1.318	7/3.35	7/1.318	23.45	0.923	264.0	0.4092	61.60	0.0955
Goat		194	0.30	30/3.71	30/0.461	7/3.71	7/1.461	25.97	1.022	324.3	0.5027	75.67	0.1173
Sheep		226	0.35	30/3.99	30/1.569	7/3.99	7/1.569	27.93	1.100	374.1	0.5799	87.29	0.1353
Antelope		226	0.35	54/2.97	54/1.168	7/2.97	7/0.168	26.73	1.052	373.1	0.5783	48.37	0.0750
Bison		226	0.35	54/3.00	54/1.181	7/3.00	7/0.181	27.00	1.062	381.8	0.5918	49.49	0.0767
	200	130	0.20	18/3.86	18/1.520	1/3.86	1/1.520	19.30	0.760	210.6	0.3264	11.69	0.0181
Deer		258	0.40	30/4.27	30/1.681	7/4.27	7/1.681	29.89	1.177	429.3	0.6654	100.20	0.1553
Zebra	400	258	0.40	54/3.18	54/1.252	7/3.18	7/1.252	28.62	1.125	428.9	0.6648	55.59	0.0862
Elk	-	290	0.45	30/4.50	30/1.771	7/4.50	7/1.771	31.50	1.239	477.0	0.7394	111.30	0.1725
Camel		290	0.45	54/3.35	54/1.318	7/3.35	7/1.318	30.15	1.187	475.2	0.7366	61.60	0.0955
Moose		323	0.50	54/3.53	54/1.390	7/3.53	7/1.390	31.77	1.251	528.7	0.8195	68.53	0.1062

BRITISH CONDUCTOR SIZES

Code Name	Total Area		Aluminum		Weight ¹ Steel		Total		N	Rated Strength ²		Maximum dc Resistance at 20 °C		Current Rating ⁴	
	mm ²	inch ²	Kg/km	Lb/M ft	Kg/km	Lb/M ft	Kg/km	lb/M ft		kgf	lbf	Ohm/km	Ohm/M ft	Temperate Amp	Tropical Amp
Mole	12.39	0.0192	29.1	19.6	13.8	9.25	42.9	28.9	4270	435	960	2.63	0.803	92	75
Squirrel	24.43	0.0379	57.4	38.6	27.1	18.2	84.6	56.8	8184	835	1840	1.34	0.407	140	114
Gopher	30.62	0.0475	72.0	48.4	34.0	22.9	106.0	71.2	10052	1025	2260	1.07	0.325	160	130
Weasel	36.88	0.0572	86.8	58.3	41.0	27.6	127.8	85.9	11876	1211	2670	0.885	0.270	179	146
Fox	42.77	0.0663	100.5	67.6	47.5	31.9	148.0	99.5	13789	1406	3100	0.763	0.233	196	159
Ferret	49.48	0.0767	116.3	78.2	55.0	36.9	171.3	115.1	15790	1610	3550	0.660	0.201	213	173
Rabbit	61.70	0.0956	145.1	97.5	68.6	46.1	213.6	143.6	19260	1964	4330	0.529	0.161	243	297
Mink	73.71	0.1142	173.4	116.5	81.9	55.1	255.3	171.6	22107	2254	4970	0.443	0.135	370	218
Skunk	100.50	0.1558	175.9	118.2	289.5	194.6	465.5	312.8	56490	5761	12700	0.422	0.129	268	223
Beaver	87.29	0.1353	205.3	138.0	97.0	65.2	302.3	203.2	25932	2644	5830	0.374	0.114	297	240
Horse	116.20	0.1800	203.1	136.5	334.2	224.6	537.3	361.1	64941	6622	14600	0.365	0.111	289	241
Raccoon	92.40	0.1433	217.3	146.0	102.6	69.0	319.9	215.0	27444	2799	6170	0.353	0.108	307	247
Otter	97.86	0.1517	230.1	154.6	108.7	73.1	338.8	227.7	29045	2962	6530	0.334	0.102	317	255
Cat	111.30	0.1726	261.6	175.8	123.6	83.1	385.2	258.8	33049	3370	7430	0.293	0.0894	341	274
Hare	122.50	0.1899	287.9	193.5	136.0	91.4	423.9	284.9	36340	3706	8170	0.267	0.0812	359	288
Dog	118.5	0.1837	287.9	193.5	106.2	71.4	394.1	264.9	33760	3443	7590	0.268	0.0816	390	312
Hyena	126.2	0.1956	290.2	195.0	159.7	107.3	449.9	302.3	42478	4332	9550	0.264	0.0830	397	316
Leopard	148.1	0.2296	360.1	242.0	133.1	89.46	493.2	331.5	42256	4309	9500	0.214	0.0653	449	358
Coyote	152.2	0.2359	365.7	245.8	155.8	104.7	521.5	350.4	47149	4808	10600	0.214	0.0653	450	358
Cougar	137.5	0.2131	359.0	241.3	56.3	37.8	415.3	279.1	30157	3075	6780	0.219	0.0667	440	351
Tiger	161.7	0.2506	364.3	244.8	239.2	160.8	603.5	405.6	60048	6123	13500	0.214	0.0653	455	361
Wolf	194.9	0.3021	439.2	295.1	288.4	193.8	727.6	489.0	71613	7303	16100	0.178	0.0542	512	406
	167.5	0.2596	437.4	294.0	68.6	46.1	506.0	340.0	35940	3665	8080	0.180	0.0548	498	395
Lynx	226.2	0.3506	508.9	342.0	334.2	224.6	843.1	566.6	82733	8437	18600	0.153	0.0487	562	445
	194.5	0.3016	508.4	341.7	79.7	53.5	588.1	395.2	40521	4132	9110	0.155	0.0472	558	442
Panther	261.5	0.4053	588.8	395.7	386.6	259.8	975.4	655.5	95187	9707	21400	0.132	0.0404	615	486
Lion	294.2	0.4560	662.7	445.4	435.2	292.5	1098	737.9	104528	10659	23500	0.118	0.0359	663	523
Bear	325.6	0.5047	733.3	492.8	481.5	323.6	1215	816.4	115648	11793	26000	0.106	0.0324	707	556
Goat	400.0	0.6200	901.0	605.5	591.7	397.6	1493	1003	136109	13880	30600	0.0866	0.0264	804	631
Sheep	461.4	0.7152	1039	698.8	682.4	458.6	1722	1157	155680	15876	35000	0.0750	0.0229	880	689
Antelope	421.5	0.6533	1034	694.9	377.4	253.6	1411	948.6	118762	12111	26700	0.0761	0.0232	853	670
Bison	431.3	0.6685	1057	710.5	385.9	259.3	1443	969.8	121430	12383	27300	0.0744	0.0227	865	679
	222.3	0.3446	580.9	390.4	91.03	61.2	671.9	451.6	45814	4672	10300	0.135	0.0413	595	471
Deer	529.5	0.8207	1193	801.6	783.3	526.4	1976	1328	178810	18234	40200	0.0654	0.0199	959	749
Zebra	484.5	0.7510	1188	798.5	433.6	291.4	1622	1090	133440	13608	30000	0.0662	0.0202	931	729
Elk	588.3	0.9119	1324	889.8	869.4	584.3	2193	1474	198381	20230	44600	0.0589	0.0179	1025	799
Camel	536.8	0.8321	1317	884.9	480.6	323.0	1797	1208	148118	15105	33300	0.0597	0.0182	993	776
Moose	597.2	0.9257	1464	984.2	534.5	359.2	1999	1343	164576	16783	37000	0.0537	0.0164	1061	828

1. Weights are calculated using ASTM standard increments of stranding,
2. Rated strengths are calculated by ASTM methods and converted to metric units after rounding,
3. Resistance is calculated using ASTM standard increments of stranding, and metal conductivities of 61.2% IACS for EC (1350) and 8", IACS for steel,
4. Current ratings are based on 50 Hz AC, 75 °C conductor temperature, and 0.61 m/s (2 ft/s) wind. 0.5 coefficients of emissivity and absorption, Temperate rating -25 °C ambient, 1000 watts/sq. meter sun. tropical rating - 40 °C ambient. 1200 watts/sq meter sun.

FRENCH CONDUCTOR SIZES													
Equal steel and aluminum wire diameter													
Code Name	Al Area mm ²	Steel Area mm ²	No. of At Wires	Stranding No. of Steel Wires	Wire Dia man	Overall Dia man	Nominal Tensile Strength Steel Wire hbar	Rated Strength of Conductor daN	Max DC Resist at 201C ? /km	Linear Weight Kg/km	Final Modulus of Elasticity * hbar	Coefficient of Linear Expansion * °C	
CANNA	37.7	28.27	9.42	9	3	2.0	8.3	117.6	1540	1.02	155	8800	17.1 x 10 ⁻⁶
CANNA	59.7	37.70	21.99	12	7	2.0	10.0	117.6	3050	0.765	276	10350	15.4 x 10 ⁻⁶
CANNA	75.5	47.71	27.83	12	7	2.25	11.25	117.6	3840	0.605	348	10350	15.4 x 10 ⁻⁶
CANNA	116.2	94.25	21.99	30	7	2.0	14.0	117.6	4145	0.306	432	7550	18 x 10 ⁻⁶
CROCUS	116.2	94.25	21.99	30	7	2.0	14.0	156.8	4740	0.306	432	7550	18 x 10 ⁻⁶
CANNA	147.1	119.28	27.83	30	7	2.25	15.75	117.6	5200	0.243	547	7550	18 x 10 ⁻⁶
CROCUS	147.1	119.28	27.83	30	7	2.25	15.75	156.8	5950	0.243	547	7550	18 x 10 ⁻⁶
CANNA	181.6	147.26	34.36	30	7	2.5	17.5	117.6	6260	0.197	675	7550	18 x 10 ⁻⁶
CROCUS	181.6	147.26	34.36	30	7	2.5	17.5	156.8	7290	0.197	675	7550	18 x 10 ⁻⁶
CANNA	228	184.72	43.10	30	7	2.8	19.6	117.6	7710	0.157	848	7550	18 x 10 ⁻⁶
CROCUS	228	184.72	43.10	30	7	2.8	19.6	156.8	9000	0.157	848	7550	18 x 10 ⁻⁶
CANNA	288	233.80	54.55	30	7	3.15	22.05	117.6	9600	0.1225	1074	7550	18 x 10 ⁻⁶
CROCUS	288	233.80	54.55	30	7	3.15	22.05	156.8	11320	0.1225	1074	7550	18 x 10 ⁻⁶

* Given for information only

FRENCH CONDUCTOR SIZES												
Non-equal steel and aluminum wire diameter												
Code Name	Al Area mm ²	Steel Area mm ²	Stranding No. & Dia of Al Wires		No. & Dia of Steel Wires	Overall Dia mm	Nominal Tensile Strength Steel Wire hbar	Rated Strength of Conductor daN	Max DC Resist at 20 °C ? /km	Linear Weight Kg/km	Final Modulus of Elasticity * Hbar	Coefficient of Linear Expansion * °C
CROCUS	297	221.67	75.54	36 x 2.8	19 x 2.25	22.45	156.8	13950	0.1305	1218	7900	16.9 x 10
CROCUS	412	325.72	85.95	32 x 3.6	19 x 2.4	26.4	156.8	16960	0.0898	1593	7200	17.6 x 10
CROCUS	612	506.97	104.79	42 x 2.61 20 x 4.24	19 x 2.65	32.2	156.8	22750	0.0566	2241	6200	18.3 x 10-1
CROCUS	865	717.33	148.06	66 x 3.72	19 x 3.15	38.1	156.8	31890	0.0405	3174	6650	18.3 x 10
CROCUS	1185	956.66	227.82	54 x 2.8 66 x 3.47	37 x 2.8	44.7	156.8	46940	0.0303	4478	6300	18.0 x 101

* Given for information only

GERMAN CONDUCTOR SIZES

Nominal Al/St mm ²	Al mm ²	Area Actual Steel mm ²	Total mm ²	Stranding and Wire Diameter		Overall Diameter mm	Al Kg/km	Weight Steel Kg/km	Total Kg/km	Nominal Breaking Load * daN	Maximum DC Resistance at 20 °C ?/km
				Al mm	Steel mm						
16/2.5	15.3	2.5	17.8	6/1.80	1/1.80	5.4	42	20	62	595	1.8780
25/4.0	23.8	4.0	27.8	6/2.25	1/2.25	6.8	65	32	97	920	1.2002
35/6.0	34.3	5.7	40.0	6/2.70	1/2.70	8.1	94	46	140	1265	0.8352
44/32.0	44.0	31.7	75.7	14/2.00	7/2.40	11.2	122	250	372	4500	0.6573
50/8.0	48.3	8.0	56.3	6/3.20	1/3.20	9.6	132	64	196	1710	0.5946
50/30	51.2	29.8	81.0	12/2.33	7/2.33	11.7	141	237	378	4380	0.5643
70/12	69.9	11.4	81.3	26/1.85	7/1.44	11.7	193	91	284	2680	0.4130
95/15	94.4	15.3	109.7	26/2.15	7/1.67	13.6	260	123	383	3575	0.3058
95/55	96.5	56.3	152.8	12/3.20	7/3.20	16.0	266	446	712	7935	0.2992
105/75	105.7	75.5	181.5	14/3.10	19/2.25	17.5	292	599	891	10845	0.2735
120/20	121.6	19.8	141.4	26/2.44	7/1.90	15.5	336	158	494	4565	0.2374
120/70	122.0	71.3	193.3	12/3.60	7/3.60	18.0	337	564	901	10000	0.2364
125/30	127.9	29.8	157.7	30/2.33	7/2.33	16.3	353	238	591	5760	0.2259
150/25	148.9	24.2	173.1	26/2.70	7/2.10	17.1	411	194	605	5525	0.1939
170/40	171.8	40.1	211.9	30/2.70	7/2.70	18.9	475	319	794	7675	0.1682
185/30	183.8	29.8	213.6	26/3.00	7/2.33	19.0	507	239	746	6620	0.1571
210/35	209.1	34.1	243.2	26/3.20	7/2.49	20.3	577	273	850	7490	0.1380
210/50	212.1	49.5	261.6	30/3.00	7/3.00	21.0	587	394	981	9390	0.1362
230/30	230.9	29.8	260.7	24/3.50	7/2.33	21.0	638	239	877	7310	0.1249
240/40	243.0	39.5	282.5	26/3.45	7/2.68	21.9	671	316	987	8640	0.1188
265/35	263.7	34.1	297.8	24/3.74	7/2.49	22.4	728	274	1002	8305	0.1094
300/50	304.3	49.5	353.7	26/3.86	7/3.00	24.5	840	396	1236	10700	0.09487
305/40	304.6	39.5	344.1	54/2.68	7/2.68	24.1	843	317	1160	9940	0.09490
340/30	339.3	29.8	369.1	48/3.00	7/2.33	25.0	938	242	1180	9290	0.08509
380/50	382.0	49.5	431.5	54/3.00	7/3.00	27.0	1056	397	1453	12310	0.07573
385/35	386.0	34.1	420.1	48/3.20	7/2.49	26.7	1067	277	1344	10480	0.07478
435/55	434.3	56.3	490.6	54/3.20	7/3.20	28.8	1203	450	1653	13645	0.06656
450/40	448.7	39.5	488.2	48/3.45	7/2.68	28.7	1241	320	1561	12075	0.06434
490/65	490.3	63.6	553.9	54/3.40	7/3.40	30.6	1356	510	1866	15310	0.05896
495/35	494.1	34.1	528.2	45/3.74	7/2.49	29.9	1363	283	1646	12180	0.05846
510/45	510.2	45.3	555.5	48/3.68	7/2.87	30.7	1413	365	1778	13665	0.05655
550/170	550.0	71.3	621.3	54/3.60	7/3.60	32.4	1520	572	2092	17060	0.05259
560/50	561.7	49.5	611.2	48/3.86	7/3.00	32.2	1553	401	1954	14895	0.05140
570/40	565.5	39.5	610.3	45/4.00	7/2.68	32.2	1563	325	1888	13900	0.05108
650/45	653.5	45.3	698.8	45/4.30	7/2.87	34.4	1791	372	2163	15552	0.04420
680/85	678.8	86.0	764.8	54/4.00	19/2.40	36.0	1866	702	2570	21040	0.04260
1045/45	1045.6	45.3	1090.9	72/4.30	7/2.87	43.0	2879	370	3249	21787	0.02770

* For stahl 111 (DIN 48200)