



MUTAHIR METAL WORKS

127/1 Quaid-e-Azam Industrial Estate Lahore.
 Landline: +92-42-35150530, 35112554.
 Mobile: +92-300-4012183
 Email: Info@mmcables.com.pk

PRODUCT CATALOG – AAC (All Aluminum Conductor)

ASTM CONDUCTOR SIZES											
Code Word	Size (AWG or KCM)	Stranding (No of Wires)	Class	Diameter (inches)		Cross Sectional Area (Sq. In)	Weight Per 1000 ft (Lbs)	Rated Strength (Lbs)	Resistance ¹ OHMS 1000 ft		Current Rating ² (Amps)
				Individual Wire	Complete Cable				DC@ 20 °C	AC@ 75 °C	
Peachbell	6	7	A	.0612	.184	.0206	24.6	563	.658	.805	103
Rose	4	7	A	.0772	.232	.0328	39.2	811	.414	.506	138
Iris	2	7	AAA	.0924	.292	.0521	62.3	1,350	.260	.318	185
Pansy	1	7	AAA	.1903	.328	.0657	78.5	1,640	.207	.252	214
Poppy	1/0	7	AAA	.1228	.368	.0829	99.1	1,990	.164	.200	247
Aster	2/0	7	AAA	.1379	.414	.1045	124.9	2,510	.130	.159	286
Phlox	3/0	7	AAA	.1548	.464	.1318	157.5	3,040	.103	.126	331
OxliP	4/0	7	AAA	.1739	.522	.1662	198.6	3,830	.0817	.0999	383
Sneezewort	250	7	A	.1890	.567	.1964	234.7	4,520	.0691	.0846	425
Valerian	250	7	A	.1147	.574	.1964	234.7	4,660	.0691	.0846	426
Daisy	266.8	7	AA	.1953	.586	.2095	250.5	4,830	.0648	.0793	443
Laurel	266.8	19	A	.1185	.593	.2095	250.5	4,970	.0648	.0793	444
Peony	300	19	A	.1257	.629	.2356	286.1	5,480	.0576	.0706	478
Tulip	336.4	19	A	.1331	.666	.2642	315.8	6,150	.0514	.0630	513
Daffodil	350	19	A	.1357	.679	.2749	328.6	6,390	.0494	.0605	526
Canna	397.5	19	AAA	.1447	.724	.3122	373.2	7,110	.0435	.0534	570
Goldentuft	450	19	AA	.1538	.769	.3534	422.4	7,890	.0384	.0472	616
Cosmos	477	19	AA	.1584	.793	.3746	447.8	8,360	.0362	.0445	639
Syringa	477	37	A	.1135	.795	.3746	447.8	8,690	.0362	.0445	639
Zinnia	500	19	AA	.1622	.811	.3927	469.4	8,760	.0346	.0425	658
Hyacinth	500	37	A	.1162	.813	.329	469.4	9,110	.0346	.0425	658
Dahlia	556.5	19	AA	.1711	.856	.4371	522.4	9,750	.0311	.0382	703
Mistletoe	556.5	37	AAA	.1226	.858	.4371	522.4	9,940	.0311	.0382	704
Meadowsweet	600	37	AAA	.1273	.891	.4712	563.2	10,700	.0288	.0355	738
Orchid	636	37	AAA	.1311	.918	.4995	597.0	11,400	.0272	.0335	765
Heuchera	650	37	AA	.1326	.928	.5105	610.2	11,600	.0266	.0328	775
Verbena	700	37	AA	.1375	.963	.5498	657.1	12,500	.0247	.0305	812
Flag	700	61	A	.1071	.964	.5498	657.1	12,900	.0247	.0305	812
Violet	715.5	37	AA	.1391	.974	.5620	671.7	12,800	.0242	.0299	823
Nasturtium	715.5	61	A	.1083	.975	.5620	671.7	13,100	.0242	.0299	823
Petunia	750	37	AA	.1424	.997	.5891	704.0	13,100	.0230	.0286	847
Cattail	750	61	A	.1109	.998	.5891	704.0	13,500	.0230	.0286	847
Arbutus	795	37	AA	.1446	1.026	.6244	746.3	13,900	.0217	.0271	878



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Lilac	795	61	A	.1142	1.028	.6244	746.3	14,300	.0217	.0270	879
Cockscomb	900	37	AA	.1560	1.092	.7069	844.9	15,400	.0192	.0239	948
Snapdragon	900	61	A	.1215	1.094	.7069	844.9	15,900	.0192	.0239	948
Magnolia	954	37	AA	.1606	1.124	.7493	895.6	16,400	.0181	.0226	982

ASTM CONDUCTOR SIZES

Code Word	Size (AWG or KCM)	Stranding (inches)		Diameter		Cross Sectional Weight Per No of Individual Comple.		Rated Strength (Lbs)	Resistance ¹ OHMS 1000 ft		Current Rating ² (Amps)
		Wires	Class	Wire	Cable	(Sq. In)	(Lbs)		DC@ 20 °C	AC@ 75 °C	
Goldenrod	954	61	A	.1251	1.126	.7493	895.6	16,900	.0181	.0226	983
Hawkweed	1000	37	AA	.1644	1.150	.7854	938.7	17,200	.0173	.0216	1010
Camellia	1000	61	A	.1280	1.152	.7854	938.7	17,700	.0173	.0216	1011
Bluebell	1033.5	37	AA	.1671	1.170	.8117	970.2	17,700	.0167	.0210	1031
Larkspur	1033.5	61	A	.1302	1.172	.8117	970.2	18,300	.0167	.0210	1032
Marigold	1113	61	AA,A	.1351	1.216	.8742	1045	19,700	.0155	.0195	1079
Hawthorn	1192.5	61	AA,A	.1398	1.258	.9366	1119	21,100	.0145	.0183	1124
Narcissus	1272	61	AAA	.1444	1.300	.9990	1194	22,000	.0136	.0173	1169
Columbine	1351.5	61	AAA	.1489	1.340	1.061	1269	23,400	.0128	.0163	1212
Carnation	1431	61	AA,A	.1532	1.379	1.124	1343	24,300	.0121	.0155	1253
Gladiolus	1510.5	61	AAA	.1574	1.417	1.186	1418	25,600	0.114	.0147	1294
Coreopsis	1590	61	AA	.1614	1.454	1.249	1493	27,000	.0109	.0141	1333
Jessamine	1750	61	AA	.1694	1.525	1.374	1643	29,700	.00988	.0129	1408
Cowslip	2000	91	A	.1482	1.630	1.571	1877	34,200	.00864	.0115	1518
Sagebrush	2250	91	A	.1572	1.729	1.767	2131	37,500	.00776	.0105	1612
Lupine	2500	91	A	.1657	1.823	1.964	2370	41,900	.00698	.00969	1706
Bitterroot	2750	91	A	.1739	1.913	2.160	2607	46,100	.00635	.00900	1793
Trilium	3000	127	A	.1537	1.996	2.356	2844	50,300	.00582	.00384	1874
Bluebonnet	3500	127	A	.1660	2.158	2.749	3350	58,700	.00499	.00756	2024

¹ Resistance is calculated using ASTM standard increments of stranding and metal conductivity of 61.2% IACS. AC resistance at 60 Hz

² Current ratings are based on 75 C conductor temperature, 25 C ambient, 2ft/s wind. 96 watts/sq. foot sun, 0.5 coefficients of emissivity and absorption



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ASTM CONDUCTOR SIZES - METRIC UNITS									
Nominal Size (AWG or KCM)	Stranding (mm ²) No. of Wires	Diameter (mm)		Weight ¹ (kg/km)	Rated Strength ² kg	Resistance ³ Ohms/km		Current Rating ⁴ (Amps)	
		Individual Wires	Complete Cable			DC @ 20 °C	AC @ 75 °C		
6	13.30	7	1.554	4.66	36.6	255	2.16	2.64	103
4	21.15	7	1.961	5.88	58.3	400	1.36	1.66	138
3	26.66	7	2.202	6.61	73.5	494	1.08	1.32	160
2	33.63	7	2.474	7.42	92.7	612	.854	1.04	185
1	42.41	19	1.687	8.43	117.0	789	.678	.828	214
1/0	53.51	19	1.892	9.46	147.3	980	.538	.657	248
2/0	67.44	19	2.126	10.63	185.9	1211	.426	.521	287
3/0	85.03	19	2.388	11.94	234.5	1501	.338	.413	332
4/0	107.2	19	2.680	13.40	295.4	1823	.268	.328	384
250	126.7	37	2.088	14.62	349.2	2227	.227	.278	426
300	152.0	37	2.286	16.00	418.6	2672	.189	.232	478
350	177.3	37	2.471	17.30	489.3	2066	.162	.199	527
400	202.7	37	2.642	18.49	559.0	3375	.142	.174	573
450	228.0	37	2.802	19.61	428.8	3719	.126	.155	616
500	253.4	37	2.951	20.66	697.8	4132	.113	.139	658
550	278.7	61	2.413	21.72	769.0	4763	.103	.127	699
600	304.0	61	2.520	22.68	835.5	5216	.0945	.117	738
650	329.4	61	2.621	23.59	907.5	5398	.0872	.108	776
700	354.7	61	2.720	24.48	977.4	5851	.0810	.100	812
750	380.0	61	2.817	25.35	1048	6123	.0756	.0937	847
800	405.4	61	2.908	26.17	1117	6532	.0709	.0880	882
900	456.0	61	3.086	27.77	1258	7212	.0630	.0785	948
1000	506.7	61	3.251	29.26	1396	8029	.0567	.0710	1011
1100	557.4	91	2.791	30.71	1535	9072	.0516	.0648	1071
1200	608.0	91	2.916	32.08	1675	9707	.0473	.0598	1129
1250	633.4	91	2.977	32.75	1746	10115	.0454	.0575	1157
1300	658.7	91	3.035	33.39	1815	10523	.0436	.0555	1184
1400	709.4	91	3.150	34.65	1954	11113	.0405	.0518	1237
1500	760.0	91	3.261	35.87	2096	11884	.0378	.0487	1288
2	33.63	19	1.501	7.51	92.7	640	.855	1.04	185
2/0	67.44	37	1.524	10.67	186.1	1252	.426	.521	287
3/0	85.03	37	1.709	11.97	234.1	1547	.338	.413	332
4/0	107.2	37	1.920	13.44	295.4	1919	.268	.328	384
250	126.7	61	1.626	14.63	349.0	2282	.227	.278	427
300	152.0	61	1.781	16.02	418.7	2690	.189	.232	478
350	177.3	61	1.923	17.31	488.3	3139	.162	.199	527
400	202.7	61	2.057	18.52	559.0	3529	.142	.174	573
450	228.0	61	2.182	19.64	628.7	3969	.126	.155	617



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ASTM CONDUCTOR SIZES - METRIC UNITS									
Nominal Size (AWG or KCM)	Diameter (mm)				Weight ¹ (kg/km)	Rated Strength ² kg	Resistance ³ Ohms/km		Current Rating ⁴ (Amps)
	(mm ²)	Stranding No. of Wires	Individual Wires	Complete Cable			DC @ 20 °C	AC @ 75 °C	
500	253.4	61	2.299	20.69	697.9	4327	.113	.139	659
550	278.7	91	1.974	21.71	767.4	4899	.103	.127	699
600	304.0	91	2.062	22.69	838.1	5216	.0945	.117	738
650	329.4	91	2.146	23.61	907.6	5670	.0872	.108	776
700	354.7	91	2.228	24.50	977.6	6123	.0810	.100	812
750	380.0	91	2.306	25.37	1048	6441	.0756	.0937	848
800	405.4	91	2.383	26.21	1118	6849	.0709	.0880	882
900	456.0	91	2.525	27.77	1256	7711	.0630	.0785	948
1000	506.7	91	2.662	29.28	1396	8255	.0567	.0710	1011

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 conductivity of 61.2% IACS.

AC resistance at 60 Hz. $R_{AC} = R_{DC} \times \left(\frac{1}{1 - \frac{1}{2} \left(\frac{f}{f_c} \right)^2} \right)$

4. 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											
Size (AWG or KCM)	No. of Wires	Stranding Class	Diameter		Cross		Weight Per 1000 ft (Lbs)	Rated Strength (Lbs)	Resistance ¹		Current Rating ² (Amps)
			(inches)		Sectional Area (Sq. Inches)	DC @ 20 °C			AC @ 75 °C		
			Individual Wire	Complete Cable							
6	7	B	.0612	.184	.0206	24.6	563	.658	.805	103	
4	7	B	.0772	.232	.0328	39.2	891	.414	.506	138	
3	7	B	.0867	.260	.0413	49.4	1,090	.328	.401	160	
2	7	B	.0974	.292	.0521	62.3	1,350	.260	.318	185	
1	19	B	.0664	.332	.0657	78.5	1,740	.207	.252	214	
1/0	19	B	.0745	.373	.0829	99.1	2,160	.164	.200	248	



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2/0	19	B	.0837	.419	.1045	124.9	2,670	.130	.159	287
3/0	19	B	.0940	.470	.1318	157.5	3,310	.103	.126	332
4/0	19	8	.1055	.528	.1662	198.6	4,020	.0817	.0999	384
250	37	B	.0822	.575	.1964	234.7	4,910	.0691	.0846	426
300	37	B	.0900	.630	.2356	281.6	5,890	.0576	.0706	478
350	37	B	.0973	.681	.2749	328.6	6,760	.0494	.0605	527
400	37	B	.1040	.728	.3142	375.5	7,440	.0432	.0530	573
450	37	B	.1103	.772	.3534	422.4	8,200	.0384	.0472	616
500	37	B	.1162	.813	.3927	469.4	9,110	.0346	.0425	658
550	61	B	.0950	.855	.4320	516.3	10,500	.0314	.0387	699
600	61	B	.0992	.893	.4712	563.2	11,500	.0288	.0355	738
650	61	B	.1032	.929	.5105	610.2	11,900	.0266	.0328	776
700	61	B	.1071	.964	.5498	657.1	12,900	.0247	.0305	812
750	61	B	.1109	.998	.5891	704.0	13,500	.0230	.0286	847
800	61	B	.1145	1.031	.6283	751.0	14,400	.0216	.0268	882
900	61	B	.1215	1.094	.7069	844.9	15,900	.0192	.0239	948
1000	61	B	.1280	1.152	.7854	938.7	17,700	.0173	.0216	1011
1100	91	B	.1099	1.209	.8639	1033	20,000	.0157	.0198	1071
1200	91	B	.1148	1.263	.9425	1126	21,400	.0144	.0182	1129
1250	91	B	.1172	1.289	.9818	1173	22,300	.0138	.0175	1157
1300	91	B	.1195	1.315	1.021	1220	23,200	.0133	.0169	1184
1400	91	B	.1240	1.364	1.100	1314	24,500	.0123	.0158	1237
1500	91	B	.1284	1.412	1.178	1408	26,200	.0115	.0148	1288
2	19	C	.0591	.296	.0521	62.3	1,410	.260	.318	185
2/0	37	C	.0600	.420	.1045	124.9	2,760	.130	.159	287
3/0	37	C	.0673	.471	.1318	157.5	3,410	.103	.126	332
4/0	37	C	.0756	.529	.1662	198.6	4,230	.0817	.0999	384
250	61	C	.0640	.576	.1964	234.7	5,030	.0691	.0846	427
300	61	C	.0701	.631	.2356	281.6	5,930	.0576	.0706	478
350	61	C	.0757	.681	.2749	328.6	6,920	.0494	.0605	527
400	61	C	.0810	.729	.3142	375.5	7,780	.0432	.0530	573
450	61	C	.0859	.773	.3534	422.4	8,750	.0384	.0472	617
500	61	C	.0905	.815	.3927	469.4	9,540	.0346	.0425	659

ASTM CONDUCTOR SIZES

Size (AWG or KCM)	No. of Wires	Stranding Class	Diameter		Cross		Resistance ¹			
			(inches)		Sectional	Weight	Rated	Ohms/1000 ft		Current Rating ²
			Individual Wire	Complete Cable	Area (Sq. Inches)	Per 1000 lt (Lbs)	Strength (Lbs)	DC @ 20 °C	AC @ 75 °C	
550	91	C	.0777	.855	.4320	516.3	10,800	.0314	.0387	699



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600	91	C	.0812	.893	.4712	563.2	11,500	0288	.0355	738
650	91	C	.0845	.930	.5105	610.2	12,500	.0266	.0328	776
700	91	C	.0877	.964	.5498	657.1	13,500	.0247	.0305	812
750	91	C	.0908	.999	.5891	704.0	14,200	.0230	.0286	848
800	91	C	.0938	1.032	.6283	751/0	15,100	.0216	.0247	882
900	91	C	.0994	1.093	.7069	844.9	17,100	0192	.0239	948
1000	91	C	.1048	1.153	.7854	938.7	18,200	.0173	.0216	1011

1. Resistance is calculated using ASTM standard increments of stranding, and metal conductivity of 52,5%.
IACS AC resistance at 60 Hz. $2 \quad 0 \quad 0$
. 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.



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BRITISH CONDUCTOR SIZES											
Code Name	Nom AI Area		Equivalent Stranding and Approximate Cu Area Wire Diameter				Total Area		Weight ¹		
	mm ²	mm ²	Inch ²	mm	inch	mm	inch	mm ²	Inch ²	Kg/km	Lb/M ft
Midge	22	14.2	0.022	7/2.06	7/.0811	6.2	0.243	23.3	0.03616	64.3	43.2
Aphis	-	16.1	0.025	3/3.35	3/.1318	7.2	0.284	26.4	0.04092	72.8	48.9
Gnat	-	16.1	0.025	7/2.21	7/.0869	6.6	0.261	26.8	0.04156	73.8	49.6
Weevil	-	19.4	0.030	3/3.66	3/.1442	7.9	0.311	31.6	0.04897	87.1	58.6
Mosquito		22.6	0.035	7/2.59	7/.1022	7.8	0.306	37.0	0.05740	102.1	68.6
Ladybird		25.8	0.040	7/2.79	7/.098	8.4	0.330	42.8	0.06629	117.9	79.2
Ant	50	32.3	0.050	7/3.10	7/.0220	9.3	0.366	52.8	0.08189	145.5	97.8
Fly	60	38.7	0.060	7/3.40	7/.0339	10.2	0.402	63.6	0.09850	175.3	117.8
Bluebottle	-	45.2	0.070	7/3.66	7/.1442	11.0	0.432	73.7	0.1143	203.3	136.6
Earwig		48.4	0.075	7/3.78	7/.1488	11.4	0.447	78.6	0.1217	216.5	145.5
Grasshopper		51.6	0.080	7/3.91	7/.0539	11.7	0.462	84.1	0.1303	231.6	155.6
Clegg		58.1	0.090	7/4.17	7/.1642	12.5	0.493	95.6	0.1482	263.6	177.2
Wasp	100	64.5	0.100	7/4.39	7/.1729	13.2	0.519	106.0	0.1643	292.3	196.4
Beetle	-	64.5	0.100	19/2.67	19/.1052	13.4	0.526	106.6	0.1652	293.7	197.4
Bee		80.6	0.125	7/4.90	7/.0929	14.7	0.579	132.0	0.2046	363.8	244.5
Cricket		96.8	0.150	7/5.36	7/.2110	16.1	0.633	157.9	0.2447	435.3	292.6
Hornet	150	96.8	0.150	19/3.25	19/.1279	16.3	0.640	157.6	0.2443	434.1	291.8
Caterpillar	-	113.0	0.175	19/3.53	19/.0390	17.7	0.695	186.0	0.2883	512.8	344.6
Chafer	200	129.0	0.200	19/3.78	19/.1488	18.9	0.744	213.2	0.3305	587.6	394.9
Spider		145.0	0.225	19/3.99	19/.1569	20.0	0.785	236.9	0.3672	653.3	439.1
Cockroach	250	161.0	0.250	19/4.22	19/.1661	21.1	0.831	265.7	0.4118	732.2	492.1
Butterfly	300	194.0	0.300	19/4.65	19/.0831	23.3	0.915	322.7	0.5002	889.8	598.0
Moth	-	226.0	0.350	19/5.00	19/.0969	25.0	0.984	373.2	0.5785	1029	691.5
Drone		226.0	0.350	37/3.58	37/.1411	25.1	0.987	373.2	0.5786	1029	691.5
Locust	-	258.0	0.400	19/5.36	19/.2110	26.8	1.055	428.5	0.6642	1182	794.1
Centipede	400	258.0	0.400	37/3.78	37/.0488	26.5	1.042	415.2	0.6436	1144	769.0
Maybug	-	290.0	0.450	37/4.09	37/.1612	28.6	1.127	486.9	0.7547	1343	902.5
Scorpion	-	323.0	0.500	37/4.27	37/.0681	29.9	1.177	529.5	0.8207	1460	981.5
Cicada	-	387.0	0.600	37/4.65	37/.0831	32.6	1.282	628.6	0.9743	1733	1164
Tarantula	-	484.0	0.750	37/5.23	37/.2059	36.6	1.441	794.8	1.2320	2191	1472

¹ . Weights are calculated using ASTM standard increments of stranding



MUTAHIR METAL WORKS

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BRITISH CONDUCTOR SIZES							
Code Name	N	Rated strength ¹		Maximum dc		Current	
				resistance at 20 °C ²		Rating ³	
		kgf	lbf	Ohm/km	Ohm/M It	Temperate Amp	Tropical Amp
Midge	4248	433	955	1.23	0.375	147	119
Aphis	4368	445	982	1.09	0.332	163	132
Gnat	4893	449	1100	1.07	0.327	161	130
Weevil	5115	522	1150	0.909	0.277	182	147
Mosquito	6361	649	1430	0.776	0.237	197	159
Ladybird	7339	748	1650	0.672	0.201	215	174
Ant	8718	889	1960	0.544	0.166	246	298
Fly	10542	1075	2370	0.452	0.138	276	222
Bluebottle	11965	1220	2690	0.390	0.119	303	243
Earwig	12721	1297	2860	0.366	0.112	315	253
Grasshopper	13344	1361	3000	0.342	0.104	329	264
Clegg	15212	1551	3420	0.301	0.0916	357	286
Wasp	16858	1719	3790	0.271	0.0826	381	304
Beetle	17748	1810	3990	0.270	0.0822	383	306
Bee	20950	2136	4710	0.218	0.0664	437	348
Cricket	24553	2504	5520	0.182	0.0555	489	389
Hornet	25265	2576	5680	0.183	0.0556	490	390
Caterpillar	29802	3039	6700	0.155	0.0471	544	432
Chafer	33493	3416	7530	0.135	0.0411	593	469
Spider	36474	3719	8200	0.121	0.0370	633	501
Cockroach	40877	4168	9190	0.108	0.0330	680	537
Butterfly	49818	5080	11200	0.0890	0.0271	768	605
Moth	57379	5851	12900	0.0770	0.0235	841	661
Drone	57379	5851	12900	0.0770	0.0235	842	661
Locust	64496	6577	14500	0.0671	0.0204	917	719
Centipede	63606	6486	14300	0.0692	0.0211	900	706
Maybug	73392	7484	16500	0.0590	0.0180	993	776
Scorpion	79619	8119	17900	0.0543	0.0165	1046	817
Cicada	94742	9661	21300	0.0457	0.0139	1161	904
Tarantula	119651	12202	26900	0.0361	0.0110	1338	1037

1. . Rated strengths are calculated by ASTM methods and converted to metric units after rounding.
2. . Resistance is calculated using ASTM standard increments of stranding, and metal conductivity of 61.2% IACS.³
3. . 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. Temperature rating –25 °C ambient, 1000 watts/sq. meter sun. Tropical rating – 40 °C ambient, 1200 watts/sq. meter sun.



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FRENCH CONDUCTOR SIZES							
Designation	Area mm ²	Stranding and		Overall Diameter mm	Nominal Breaking Load daN	Maximum DC Resistance At 20 °C ? /km	Linear Weight Kg/km
		Wire Diameter No.	Dia mm				
27.8	27.83	7	2.25	6.75	456	1.03	76
34.4	34.36	7	2.50	7.50	565	0.836	94
43.1	43.10	7	2.80	8.40	688	0.667	118
54.6	54.55	7	3.15	9.45	847	0.526	149
69.3	69.28	7	3.55	10.65	1079	0.415	190
75.5	75.54	19	2.25	11.25	1197	0.382	208
93.3	93.27	19	2.50	12.50	1481	0.309	257
117	116.98	19	2.80	14.00	1805	0.247	322
148	148.01	19	3.15	15.75	2227	0.195	407
188	188.06	19	3.55	17.75	2825	0.153	518
228	227.83	37	2.80	19.60	3443	0.127	627
288	288.34	37	3.15	22.05	4228	0.100	794
366	366.22	37	3.55	24.85	5366	0.0792	1009
475	475.38	61	3.15	28.35	6730	0.0612	1312
60	603.78	61	3.55	31.95	8554	0.0481	1667

GERMAN CONDUCTOR SIZES



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Nominal mm ²	Stranding			Actual Diameter mm	Calculated Diameter daN	Maximum DC Resistance At 20 °C ? /km
	Area and Wire Overall		Linear Breaking Weight Load mm			
	mm	mm				
16	15.89	7/1.70	5.1	44	290	1.8018
25	24.25	7/2.10	6.3	67	425	1.1808
35	34.36	7/2.50	7.5	94	585	0.8332
50	49.48	7/3.00	9.0	135	810	0.5786
50	48.36	19/1.80	9.0	133	860	0.5950
70	65.82	19/2.10	10.5	181	1150	0.4371
95	93.27	19/2.50	12.5	256	1595	0.3084
120	117.00	19/2.80	14.0	322	1910	0.2459
150	147.10	37/2.25	15.2	406	2570	0.1960
185	181.60	37/2.50	17.5	501	3105	0.1587
240	242.54	61/2.25	20.2	670	4015	0.1191
300	299.43	61/2.50	22.5	827	4850	0.09650
400	400.14	61/2.89	26.0	1105	6190	0.07221
500	499.83	61/3.23	29.1	1381	7600	0.05781
625	626.20	91/2.96	32.6	1733	9690	0.04625
800	802.10	91/3.35	36.8	2219	12055	0.03611
1000	999.71	91/3.74	41.1	2766	14845	0.02897