

Lapp Global Stranding

AWG	Lapp	mm ²	Class K	mm ²	Class 5	mm ²	DCR	Class 6	Class M	mm ²
26	—	—	—	—	—	0.14	42.0	18 / 0.10	7/34	0.14
24	—	—	—	—	14 / 0.15	0.25	24.0	32 / 0.10	10/34	0.20
22	—	—	7/30	0.35	19 / 0.15	0.34	17.3	42 / 0.10	19/34	0.38
20	—	—	10/30	0.51	16 / 0.21	0.50	11.88	28 / 0.15	26/34	0.52
	—	—	—	—	24 / 0.21	0.75	7.92	42 / 0.15	41/34	0.83
18	19/30*	—	16/30	1.00	32 / 0.21	1.0	5.94	56 / 0.15	—	—
16	28 / 30	1.5	26/30	1.32	30 / 0.26	1.5	4.05	84 / 0.15	65/34	1.31
14	46 / 30	2.5	41/30	2.08	50 / 0.26	2.5	2.43	140 / 0.15	105/34	2.11
12	56 / 0.0117	4	65/30	3.30	56 / 0.31	4	1.50	224 / 0.15	168/34	3.38
10	82/ 0.0117	6	105/30	5.32	84 / 0.31	6	1.00	192 / 0.20	259/34	5.21
8	74/ 0.0159	10	168/30	8.52	80 / 0.41	10	0.582	320 / 0.20	413/34	8.31
6	119 / 0.0159	16	266/30	13.5	128 / 0.41	16	0.368	512 / 0.20	665/34	13.40
4	—	—	413/30	21.0	200 / 0.41	25	0.237	800 / 0.20	1064/34	21.40
2	—	—	665/30	33.7	280 / 0.41	35	0.168	1120 / 0.20	1666/34	33.50
1	—	—	836/30	43.0	400 / 0.41	50	0.117	705 / 0.30	2109/34	42.0
2/0	—	—	1330/30	67.0	356 / 0.50	70	0.082	990 / 0.30	—	—
3/0	—	—	—	—	485 / 0.50	95	0.062	1340 / 0.30	—	—
4/0	—	—	2107/30	106	614 / 0.50	120	0.049	1690 / 0.30	—	—
300 KCMIL	—	—	—	—	765 / 0.50	150	0.039	2123 / 0.30	—	—
350 KCMIL	—	—	—	—	944 / 0.50	185	0.032	1470 / 0.40	—	—
500 KCMIL	—	—	—	—	1225 / 0.50	240	0.024	1905 / 0.40	—	—
600 KCMIL	—	—	—	—	1530 / 0.50	300	0.019	2385 / 0.40	—	—
750 KCMIL	—	—	—	—	2035 / 0.50	400	0.014	—	—	—
1000 KCMIL	—	—	—	—	1768 / 0.60	500	0.011	—	—	—

* Meets only the Class 5 Cross section and DC Resistance

European Cable Stranding

Cross-Section (mm ²)	Strands VDE 0295 BS 6360 Class 2 (1)	Multi-Wire Strands (2)	Fine-Wire Strands VDE 0295 BS 6360 Class 6 (3)	Fine-Wire Strands VDE 0295 BS 6360 Class 5 (4)	Super Fine Wire Strands (5)	Super Fine Wire Strands (6)	Super Fine Wire Strands (7)
0.05	—	—	—	—	—	36 x 0.07	24 x 0.05
0.08	—	—	—	—	—	65 x 0.07	41 x 0.05
0.14	—	—	—	18 x 0.10	18 x 0.10	88 x 0.07	72 x 0.05
0.25	—	—	14 x 0.16	32 x 0.10	32 x 0.10	100 x 0.07	128 x 0.05
0.34	—	7 x 0.25	19 x 0.16	42 x 0.10	42 x 0.10	131 x 0.07	174 x 0.05
0.38	—	7 x 0.27	12 x 0.21	21 x 0.15	48 x 0.10	195 x 0.07	194 x 0.05
0.50	7 x 0.30	7 x 0.30	16 x 0.21	28 x 0.15	64 x 0.10	260 x 0.07	256 x 0.05
0.75	7 x 0.37	7 x 0.37	24 x 0.21	42 x 0.15	96 x 0.10	392 x 0.07	384 x 0.05
1.00	7 x 0.43	7 x 0.43	32 x 0.21	56 x 0.15	128 x 0.10	651 x 0.07	512 x 0.05
1.50	7 x 0.52	7 x 0.52	30 x 0.26	84 x 0.15	192 x 0.10	1040 x 0.07	768 x 0.05
2.50	7 x 0.67	19 x 0.41	50 x 0.26	140 x 0.15	320 x 0.10	1560 x 0.07	1280 x 0.05
4	7 x 0.85	19 x 0.52	56 x 0.31	224 x 0.15	512 x 0.10	2600 x 0.07	—
6	7 x 1.05	19 x 0.64	84 x 0.31	192 x 0.20	768 x 0.10	—	—
10	7 x 1.35	49 x 0.51	80 x 0.41	320 x 0.20	1280 x 0.10	—	—
16	7 x 1.70	49 x 0.65	128 x 0.41	512 x 0.20	2048 x 0.10	—	—
25	7 x 2.13	84 x 0.62	200 x 0.41	800 x 0.20	3200 x 0.10	—	—
35	7 x 2.52	133 x 0.58	280 x 0.41	1120 x 0.20	—	—	—
50	19 x 1.83	133 x 0.69	400 x 0.41	705 x 0.30	—	—	—
70	19 x 2.17	189 x 0.69	356 x 0.51	990 x 0.30	—	—	—
95	19 x 2.52	259 x 0.69	485 x 0.51	1340 x 0.30	—	—	—
120	37 x 2.03	336 x 0.67	614 x 0.51	1690 x 0.30	—	—	—
150	37 x 2.27	392 x 0.69	765 x 0.51	2123 x 0.30	—	—	—
185	37 x 2.52	494 x 0.69	944 x 0.51	1470 x 0.40	—	—	—
240	61 x 2.24	627 x 0.70	1225 x 0.51	1905 x 0.40	—	—	—
300	61 x 2.50	790 x 0.70	1530 x 0.51	2385 x 0.40	—	—	—
400	61 x 2.89	—	2035 x 0.51	—	—	—	—
500	61 x 3.23	—	1768 x 0.51	—	—	—	—

Note: The number of wires in columns (3) - (7) is optional.

VDE 0295 specifies only the maximum diameter of the individual wires and the maximum resistance assigned to the cross-section.

Stranded Conductors: AWG

AWG	Stranding	Diameter		Cross-Sectional Area		Weight (lbs/mft)	DCR @ 20°C (Ω/mft)	
		(inches)	(mm ²)	(CMA*)	(mm ²)		Bare Cu	Tinned Cu
30	7/38	0.012	0.3048	112.00	0.0567	0.34	100.3	107.700
30	19/42	0.013	0.3302	118.75	0.0589	0.36	101.9	109.400
28	7/36	0.015	0.3810	175.00	0.0889	0.55	63.55	68.220
28	19/40	0.016	0.4064	182.59	0.0931	0.59	63.06	67.690
27	7/35	0.017	0.4318	219.52	0.1113	0.63	50.44	54.150
27	65/44	0.018	0.4572	260.00	0.1235	0.70	49.41	53.050
26	7/34	0.019	0.4826	277.83	0.1407	0.87	39.70	42.610
26	10/36	0.020	0.5080	250.00	0.1270	0.77	44.92	48.210
26	19/38	0.020	0.5080	304.00	0.1539	0.93	37.33	40.070
24	7/32	0.024	0.6096	448.00	0.2268	1.38	24.46	26.250
24	10/34	0.023	0.5842	396.90	0.2010	1.22	28.06	31.120
24	19/36	0.025	0.6350	475.00	0.2413	1.47	23.64	25.380
24	41/40	0.024	0.6096	384.40	0.2009	1.25	29.78	31.970
22	7/30	0.030	0.7620	700.00	0.3542	2.19	15.57	16.720
22	19/34	0.032	0.8128	754.11	0.3819	2.32	14.77	16.100
22	26/36	0.029	0.7366	650.00	0.3302	1.97	17.44	18.720
20	7/28	0.038	0.9652	1111.00	0.5628	3.49	9.81	10.420
20	10/30	0.036	0.9144	1000.00	0.5060	3.14	11.00	11.810
20	19/32	0.038	0.9652	1216.00	0.6156	3.75	9.10	9.770
20	26/34	0.040	1.0160	1031.94	0.5226	3.21	10.90	11.700
20	41/36	0.038	0.9652	1025.00	0.5207	3.17	11.17	11.990
18	7/26	0.046	1.1684	1769.60	0.8960	5.04	6.165	6.550
18	16/30	0.046	1.6840	1600.00	0.8096	5.00	6.877	7.384
18	19/30	0.048	1.2192	1900.00	0.9614	5.90	5.791	6.218
18	41/34	0.046	1.6840	1627.29	0.8241	5.06	6.975	7.487
18	65/36	0.048	1.2192	1625.00	0.8255	5.00	7.043	7.560
16	7/24	0.060	1.5240	2828.00	1.4322	8.56	3.855	4.002
16	19/29	0.054	1.3716	2426.30	1.2293	7.50	4.538	4.817
16	26/30	0.058	1.4732	2600.00	1.3156	8.06	4.273	4.588
16	65/34	0.059	1.4986	2579.85	1.3065	8.03	4.400	4.723
16	105/36	0.059	1.4986	2625.00	1.3335	8.09	4.360	4.680
14	7/22	0.073	1.8542	4480.04	2.2694	12.76	2.428	2.531
14	19/27	0.068	1.7272	3830.40	1.9399	12.50	2.874	3.054
14	41/30	0.070	1.7780	4100.00	2.0746	12.88	2.735	2.937
14	105/34	0.086	2.1844	4167.50	2.1105	13.00	2.724	2.924
12	7/20	0.096	2.4384	7168.00	3.6302	21.69	1.516	1.574
12	19/25	0.090	2.2860	6087.60	3.0837	19.70	1.806	1.916
12	65/30	0.102	2.5908	6500.00	3.2890	20.76	1.725	1.853
12	165/34	0.095	2.4130	6548.90	3.3165	19.82	1.750	1.878
10	37/26	0.110	2.7940	9353.60	4.7360	29.00	1.189	1.263
10	49/27	0.116	2.9464	9878.40	5.0029	29.89	1.136	1.207
10	105/30	0.120	3.0480	105300.00	5.3130	33.10	1.068	1.147
8	49/25	0.147	3.7338	15699.60	7.9527	47.53	0.714	0.757
8	133/29	0.166	4.2164	16984.11	8.6051	52.87	0.661	0.701
8	655/36	0.147	3.7338	16625.01	8.3185	51.30	0.706	0.757
6	133/27	0.206	5.2324	26812.80	13.5793	81.14	0.418	0.445
6	266/30	0.210	5.3340	25900.01	13.4596	86.01	0.426	0.457
6	1050/36	0.184	4.6736	26250.01	13.3350	79.47	0.440	0.472
4	7x19/25	0.257	6.5278	42613.00	21.5859	133.00	0.263	0.279
4	259/27	0.232	5.8928	52214.40	26.4439	158.02	0.217	0.231
4	1666/36	0.232	5.8928	41650.00	21.1582	126.10	0.277	0.298
2	133/32	0.292	7.4168	67936.40	34.4071	205.62	0.164	0.171
2	259/26	0.292	7.4168	65475.20	33.1520	198.14	0.173	0.184
2	665/30	0.328	8.3112	66500.00	33.1430	213.00	0.170	0.183
2	2109/34	0.292	7.4168	66150.00	33.6042	200.28	0.175	0.187
1	19x0.0664	0.328	8.3312	82983.60	42.4700	251.20	0.134	0.137
1	19x44/30	0.377	9.5758	81700.00	43.3016	267.79	0.135	0.171
1	2109/34	0.328	8.3312	83706.20	42.3909	253.29	0.137	0.147
1/0	133/21	0.368	9.3472	108035.90	54.7162	327.05	0.104	0.108
1/0	259/24	0.368	9.3472	104636.00	52.9914	316.76	0.108	0.112
2/0	133/20	0.414	10.5156	136192.00	68.9738	400.41	0.0821	0.085
2/0	259/23	0.414	10.5156	132297.20	67.0033	430.00	0.0855	0.089
2/0	1330/30	0.406	10.3124	133300.00	67.2980	501.70	0.0851	0.091
3/0	259/22	0.464	11.7856	163195.00	83.9678	522.20	0.0682	0.071
3/0	427/24	0.464	11.7856	172508.00	87.3642	638.88	0.0657	0.068
4/0	259/21	0.597	15.1638	210385.70	106.5526	660.01	0.0537	0.056
4/0	427/23	0.598	15.1892	218111.60	110.4649	653.00	0.0519	0.054
4/0	2107/30	0.608	15.4332	211468.00	106.6142	676.00	0.0537	0.058

* CMA: Circular Mil Area

Solid Conductors: AWG

AWG	Diameter		Cross-Sectional Area		DCR @ 20°C (Ω/mft)		Weight (lbs/mft)	Break Strength (lbs/Max)
	(inches)	(mm ²)	(CMA*)	(mm ²)	Bare Cu	Tinned Cu		
40	0.0031	0.07874	9.6	0.0049	1552	1236.60	0.0291	0.3106
39	0.0035	0.08890	12.3	0.0062	897.10	963.00	0.0371	0.3917
38	0.0040	0.10160	16.0	0.0081	681.90	732.00	0.0484	0.4939
37	0.0045	0.11430	20.3	0.0103	535.70	575.10	0.0613	0.6228
36	0.0050	0.12700	25.0	0.0127	431.90	463.60	0.0757	0.7854
35	0.0056	0.14224	31.4	0.0159	342.80	368.00	0.0949	0.9904
34	0.0063	0.16002	39.7	0.0201	269.80	289.60	0.120	1.249
33	0.0071	0.18034	50.4	0.0255	211.70	227.30	0.153	1.575
32	0.0080	0.20320	64.0	0.0324	166.20	178.40	0.194	1.986
31	0.0089	0.22606	79.2	0.0401	133.90	143.70	0.240	2.504
30	0.0100	0.25400	100	0.0506	105.80	113.60	0.304	3.157
29	0.0113	0.28702	128	0.0647	82.90	88.00	0.387	3.981
28	0.0126	0.32004	159	0.0804	66.70	70.80	0.481	5.020
27	0.0142	0.36068	202	0.1021	52.50	55.80	0.610	6.331
26	0.0159	0.40386	253	0.1280	41.90	44.50	0.765	7.983
25	0.0179	0.45466	320	0.1623	33.00	35.00	0.970	10.070
24	0.0201	0.51054	404	0.2046	26.20	27.20	1.22	12.690
23	0.0226	0.57404	511	0.2587	20.70	21.50	1.55	15.410
22	0.0253	0.64262	640	0.3242	16.50	17.20	1.94	19.430
21	0.0285	0.72390	812	0.4114	13.00	13.50	2.46	24.500
20	0.0320	0.81280	1020	0.5186	10.30	10.70	3.10	30.890
19	0.0359	0.91186	1290	0.6527	8.21	8.54	3.90	38.950
18	0.0403	1.02362	1620	0.8225	6.52	6.78	4.92	49.120
17	0.0453	1.15062	2050	1.0393	5.16	5.37	6.21	61.930
16	0.0508	1.29032	2580	1.3070	4.10	4.26	7.81	78.100
15	0.0571	1.45034	3260	1.6512	3.25	3.38	9.87	98.480
14	0.0641	1.62814	4110	2.0809	2.58	2.68	12.40	124.20
13	0.0720	1.82880	5180	2.6254	2.04	2.12	15.70	156.60
12	0.0808	2.05232	6530	3.3064	1.62	1.68	19.80	197.50
11	0.0907	2.30378	8230	4.1663	1.29	1.34	24.90	249.00
10	0.1019	2.58826	10380	5.2588	1.02	1.06	31.40	314.00
9	0.1144	2.90576	13090	6.6281	0.809	0.833	39.60	380.50
8	0.1285	3.26390	16510	8.3626	0.641	0.660	50.00	479.80
7	0.1443	3.66522	20820	10.5456	0.508	0.523	63.00	605.00
6	0.1620	4.11480	26240	13.2913	0.403	0.415	79.40	762.90
5	0.1819	4.62026	33090	16.7572	0.320	0.329	100	961.90
4	0.2043	5.18922	41740	21.1385	0.254	0.261	126	1213
3	0.2294	5.82676	52620	26.6516	0.201	0.206	159	1530
2	0.2593	6.58622	66360	34.0520	0.157	0.161	201	1929
1	0.2893	7.34822	83690	42.3871	0.126	0.129	253	2432
1/0	0.3249	8.25246	105600	53.4609	0.100	0.102	319	2984
2/0	0.3648	9.26592	133100	67.3980	0.0795	0.0814	403	3763
3/0	0.4096	10.43084	167800	84.9683	0.0631	0.0616	508	4745
4/0	0.4600	11.68400	211600	107.1649	0.0500	0.0512	641	5983

* CMA: Circular Mil Area

Size Conversion Charts

American Wire Gauge (AWG) to mm²

AWG	mm ²	AWG	mm ²	AWG	mm ²
30	0.05	12	4	4/0	120
28	0.08	10	6	250	120
26	0.14	8	10	300	150
24	0.25	6	16	350	185
22	0.34	4	25	400	185
20	0.50	2	35	450	240
19	0.75	1	50	500	240
18	1.0	1/0	50	600	300
16	1.5	2/0	70	750	400
14	2.5	3/0	95		

mm² to American Wire Gauge (AWG)

mm ²	AWG	mm ²	AWG	mm ²	AWG
0.14	26	4	12	95	4/0
0.25	24	6	10	120	250
0.34	22	10	8	150	300
0.50	20	16	6	185	350, 400
0.75	19	25	4	240	450, 500
1.0	18	35	2, 1	300	600
1.5	16	50	1/0	400	750, 800
2.5	14	70	2/0, 3/0		