

International Wire Size Conversion Table

All dimensions shown are as accurate as possible, however, when converting AWG, SWG, inches and metric dimensions, round-off errors do occur. Wire and cable also vary depending upon manufacturer. The Eraser Company, Inc. supplies a wide range of wire and cable cutting, stripping and preparation equipment and this table will assist you in selecting the appropriate equipment for your application.

American or Brown & Sharpe's AWG	British Standard SWG	Nominal Conductor Diameter (inches)	Nominal Conductor Diameter (mm)	Fractional Equivalent (inches)	Cross Sectional Conductor Area Sq mm(mm ²)	**Stranded Wire Construction		American or Brown & Sharpe's AWG	British Standard SWG	Nominal Conductor Diameter (inches)	Nominal Conductor Diameter (mm)	Fractional Equivalent (inches)	Cross Sectional Conductor Area Sq mm(mm ²)	Number of Strands x Diameter of Strands (inches)	Number of Strands x Diameter of Strands (mm)
						Nominal Conductor Diameter (inches)	Nominal Conductor Diameter (mm)								
-	-	0.328	8.33	21/64	54.5	-	-	17	-	0.045	1.14	-	1.02	14 x .012	32 x .2
1/0	0	0.325	8.26	-	53.6	-	-	18	19	0.040	1.02	-	0.82	16 x .010	7 x .4
-	-	0.313	7.95	5/16	49.7	-	-	19	20	0.036	0.91	-	0.65	19 x .0076	14 x .025
-	1	0.300	7.62	-	45.6	-	-	20	21	0.032	0.81	-	0.52	10 x .010	16 x .2
-	-	0.297	7.54	19/64	44.7	-	-	-	-	0.031	0.79	1/32	0.49	-	151 x .065
1	-	0.289	7.34	-	42.3	-	-	21	22	0.028	0.71	-	0.40	14 x .0076	-
-	-	0.281	7.14	9/32	40.1	-	-	22	-	0.025	0.64	-	0.32	7 x .010	-
-	2	0.276	7.01	-	38.6	-	-	-	23	0.024	0.61	-	0.29	-	-
-	-	0.266	6.76	17/64	35.9	-	-	23	24	0.022	0.56	-	0.25	14 x .006	7 x .2
2	-	0.257	6.53	-	33.5	-	-	24	25	0.020	0.51	-	0.20	7 x .008	-
-	3	0.252	6.40	-	32.2	-	-	25	26	0.018	0.46	-	0.17	-	-
-	-	0.250	6.35	1/4	31.7	-	-	26	27	0.016	0.41	1/64	0.13	7 x .0063	-
-	-	0.234	5.94	15/64	27.7	-	-	27	28	0.015	0.38	-	0.11	14 x .004	-
-	4	0.232	5.89	-	27.3	-	-	27	29	0.014	0.36	-	0.10	-	-
3	-	0.229	5.82	-	26.6	-	-	28	-	0.013	0.33	-	0.09	7 x .005	-
-	-	0.219	5.56	7/32	24.3	-	-	-	30	0.0124	0.31	-	0.08	-	-
-	5	0.212	5.38	-	22.7	-	-	-	31	0.016	0.29	-	0.07	-	-
4	-	0.204	5.18	-	21.1	-	-	29	-	0.012	0.28	-	0.06	-	7 x .01
-	-	0.203	5.16	13/64	20.9	-	-	30	32	0.0108	0.27	-	0.057	-	-
-	6	0.192	4.88	-	18.7	-	-	-	33	0.010	0.25	-	0.049	7 x .004	-
-	-	0.188	4.78	3/16	18.0	-	-	-	34	0.0092	0.23	-	0.042	6 x .012	-
5	-	0.182	4.62	-	16.8	-	-	31	-	0.0089	0.22	-	0.038	-	-
-	7	0.176	4.47	-	15.7	-	-	32	35	0.0084	0.21	-	0.035	-	-
-	-	0.172	4.37	11/64	15.0	-	-	32	-	0.0079	0.20	-	0.031	7 x .0031	-
6	-	0.162	4.11	-	13.3	-	-	-	36	0.0076	0.19	-	0.028	-	-
-	-	0.160	4.06	-	13.0	-	-	33	-	0.0071	0.18	-	0.025	-	-
-	8	0.156	3.96	5/32	12.3	-	-	-	37	0.0068	0.17	-	0.023	-	-
7	-	0.144	3.66	-	10.5	-	-	34	-	0.0063	0.16	-	0.020	7 x .0025	-
-	-	0.141	3.58	9/64	10.1	-	-	35	38	0.0060	0.15	-	0.018	-	-
8	10	0.128	3.25	-	8.30	-	-	-	-	0.0056	0.14	-	0.015	-	-
-	-	0.125	3.18	1/8	7.95	-	-	-	39	0.0052	0.13	-	0.013	7 x .002	-
-	11	0.116	2.95	-	6.84	-	-	36	-	0.0050	0.13	-	0.013	-	-
9	-	0.114	2.90	-	6.61	-	-	-	40	0.0048	0.12	-	0.011	-	-
-	-	0.109	2.77	7/64	6.03	-	-	37	41	0.0044	0.11	-	0.010	-	-
-	12	0.104	2.64	-	5.48	-	-	38	42	0.0039	0.10	-	0.008	-	-
10	-	0.102	2.59	-	5.27	-	-	-	43	0.0036	0.091	-	0.007	-	-
-	-	0.094	2.39	3/32	4.49	-	-	39	-	0.0035	0.089	-	0.006	-	-
-	13	0.092	2.34	-	4.30	-	-	-	44	0.0032	0.081	-	0.005	-	-
11	-	0.091	2.31	-	4.19	-	-	40	-	0.0031	0.079	-	0.005	-	-
12	-	0.081	2.06	-	3.33	-	-	41	45	0.0028	0.071	-	0.004	-	-
-	14	0.080	2.03	-	3.23	-	-	42	-	0.0025	0.064	-	0.003	-	-
13	-	0.078	1.98	5/64	3.08	-	-	-	46	0.0024	0.061	-	0.003	-	-
14	15	0.072	1.83	-	2.63	-	-	43	-	0.0022	0.056	-	0.002	-	-
-	16	0.064	1.63	-	2.09	-	-	44	47	0.0020	0.051	-	0.002	-	-
-	-	0.063	1.60	1/16	2.01	-	-	45	-	0.0018	0.046	-	0.002	-	-
-	-	0.057	1.45	-	1.65	-	-	46	48	0.0016	0.041	-	0.001	-	-
16	-	0.056	1.42	-	1.58	-	-	47	-	0.0014	0.036	-	0.001	-	-
-	18	0.051	1.30	-	1.33	-	-	48	49	0.0012	0.030	-	0.001	-	-
-	-	0.048	1.22	-	1.17	-	-	48	-	0.0011	0.028	-	0.001	-	-
-	-	0.047	1.19	3/64	1.11	-	-	50	-	0.0010	0.025	-	0.001	-	-

**For stranded wires other conversion figures (OD, area, etc.) are only approximate as construction and exact dimensional data varies depending on wire manufacturer. However, figures shown are approximate and usually are adequate in the selection of wire stripping tools and equipment.