

**Conductor**

Table 2: Stranded Copper Wire, American Wire Gage

Gage (AWG)	Stranding (Nom. AWG)	Min. Average CD of Strand	Approximate OD			ASTM Min. Circular MIL Area	Min. Weight		Max. Resistance @ 68°F (20°C)	
			inch	mm	mm <sup>2</sup>		lbs./1000 ft.	kg/km	Ω/1000 ft.	Ω/km
36	7x44	0.0019	0.006	0.152	0.014	25	0.076	0.11	414.8	1360.54
34	7x42	0.0024	0.0075	0.191	0.022	39.7	0.121	0.18	260.9	855.75
32	7x40	0.0030	0.0093	0.236	0.034	64	0.195	0.29	164.1	538.25
	19x44	0.0018	0.010	0.254	0.039	64	0.195	0.29	164.1	538.25
30	7x38	0.0038	0.012	0.305	0.056	100	0.304	0.45	112.0	367.36
	19x42	0.0023	0.012	0.305	0.060	100	0.304	0.45	112.0	367.36
28	7x36	0.0048	0.015	0.381	0.071	159	0.484	0.72	70.7	231.90
	19x40	0.0029	0.016	0.406	0.093	159	0.484	0.72	70.7	231.90
27	7x35	0.0054	0.017	0.432	0.111	202	0.614	0.91	55.6	182.37
26	7x34	0.0060	0.019	0.483	0.140	253	0.770	1.15	44.4	145.63
	10x36	0.0050	0.021	0.533	0.127	253	0.770	1.15	44.4	145.63
	19x38	0.0036	0.020	0.508	0.153	253	0.770	1.15	44.4	145.63
24	7x32	0.0076	0.024	0.610	0.226	404	1.229	1.83	27.7	90.86
	10x34	0.0064	0.024	0.610	0.200	404	1.229	1.83	27.7	90.86
	19x36	0.0046	0.024	0.610	0.239	404	1.229	1.83	27.7	90.86
	42x40	0.0031	0.023	0.584	0.201	404	1.229	1.83	27.7	90.86
22	7x30	0.0096	0.030	0.762	0.352	640	1.947	2.90	17.5	57.40
	19x34	0.0058	0.031	0.787	0.380	640	1.947	2.90	17.5	57.40
	26x36	0.0050	0.030	0.762	0.327	640	1.947	2.90	17.5	57.40
20	7x28	0.0126	0.038	0.965	–	1020	3.103	4.62	10.9	35.75
	10x30	0.0101	0.037	0.940	0.612	1020	3.103	4.62	10.9	35.75
	19x32	0.0073	0.037	0.940	0.612	1020	3.103	4.62	10.9	35.75
	26x34	0.0063	0.036	0.914	0.520	1020	3.103	4.62	10.9	35.75
	42x36	0.0049	0.038	0.965	–	1020	3.103	4.62	10.9	35.75
18	7x26	0.0152	0.048	1.22	0.891	1620	4.93	7.33	6.92	22.70
	16x30	0.0101	0.047	1.19	0.808	1620	4.93	7.33	6.92	22.70
	19x30	0.0092	0.049	1.24	0.957	1620	4.93	7.33	6.92	22.70
	42x34	0.0062	0.047	1.19	0.819	1620	4.93	7.33	6.92	22.70
	65x36	0.0050	0.047	1.19	–	1620	4.93	7.33	6.92	22.70
16	7x24	0.0192	0.060	1.52	1.420	2580	7.85	11.68	4.35	14.27
	19x29	0.0117	0.058	1.47	1.216	2580	7.85	11.68	4.35	14.27
	26x30	0.0100	0.059	1.50	1.310	2580	7.85	11.68	4.35	14.27
	65x34	0.0063	0.059	1.50	1.300	2580	7.85	11.68	4.35	14.27
	105x36	0.0050	0.059	1.50	1.365	2580	7.85	11.68	4.35	14.27
14	7x22	0.0242	0.076	1.93	–	4110	12.50	18.60	2.73	8.95
	19x26	0.0147	0.071	1.80	–	4110	12.50	18.60	2.73	8.95
	42x30	0.0099	0.075	1.91	–	4110	12.50	18.60	2.73	8.95
	105x34	0.0063	0.075	1.91	–	4110	12.50	18.60	2.73	8.95
12	7x20	0.0305	0.096	2.44	3.610	6530	19.86	29.55	1.71	5.61
	19x25	0.0185	0.093	2.36	3.070	6530	19.86	29.55	1.71	5.61
	65x30	0.0100	0.095	2.41	3.270	6530	19.86	29.55	1.71	5.61
	165x34	0.0063	0.095	2.41	3.300	6530	19.86	29.55	1.71	5.61
10	37x26	0.0167	0.115	2.92	4.710	10380	31.58	46.98	1.08	3.54
	65x28	0.0126	0.120	3.05	–	10380	31.58	46.98	1.08	3.54
	105x30	0.0099	0.118	3.00	–	10380	31.58	46.98	1.08	3.54

\* AWG 10 through 30 per UL subject 13.

Belden has standardized on the stranded conductors used in the design of all Belden products.