

Plated Wire and Ribbon



MWS produces and inventories the most complete line of continuous electroplated wires and ribbons to be found anywhere in the world. These wires are produced to meet customers' most critical solderability, purity, and dimensional requirements, as well as a variety of federal, military and commercial standards and specifications.

Plating Finishes

Gold, Silver, Nickel, Tin, Tin/Lead (60/40, 70/30, 90/10), Cadmium, Copper

Surface Conditions and Treatments

Bright, semi-bright, or matte finish
Tarnish resistant or chromate treatment

Conductor Materials

Copper, Nickel, Kovar, Dumet, Copper-Nickel Alloys, Nickel-Iron Alloys, Nickel-Chromium Alloys, Beryllium Copper, Phosphor Bronze, and Brass, along with a variety of other metals and alloys.

Bus Wire

Commercial tin-plated copper wire is available in sizes 8 - 40 AWG.

Size Range Capabilities

Round: .125" - .0007"

Flat/square/rectangular: thickness .0005" and larger, widths up to .125"

Packaging

Continuous lengths on spools or cut and straightened to specific lengths per customer requirements

Plated Copper Wire Data

SIZE (AWG)	DIAMETER (INCHES)	CIRCULAR MILS	RESISTANCE (OHMS PER 1000 FT. AT 20° C)	POUNDS PER 1000 FT.	THICKNESS OF COATING (MICROINCHES)											
					SILVER PLATED						NICKEL PLATED					
					1.25%	2%	2.5%	3%	4%	5%	6.1%	2%	4%	7%	10%	27%
14	.0641	4110	2.48	12.4	170	272	343	417	551	692	846	322	647	1142	1645	4670
15	.0571	3260	3.13	9.87	151	243	305	371	491	617	754	282	577	1018	1465	4160
16	.0508	2580	3.95	7.81	135	216	272	330	437	549	671	255	513	905	1304	3700
17	.0453	2050	4.98	6.21	120	193	242	294	390	489	598	228	458	807	1162	3300
18	.0403	1620	6.30	4.92	107	171	216	262	347	435	532	202	407	718	1034	2930
19	.0359	1290	7.91	3.90	95	153	192	233	309	388	474	180	363	640	921	2610
20	.0320	1020	10.0	3.10	85	136	171	208	247	346	422	161	323	570	821	2330
21	.0285	812	12.6	2.46	76	121	152	185	245	308	376	143	288	508	731	2070
22	.0253	640	15.9	1.94	67	108	135	164	218	273	334	127	255	451	649	1850
23	.0226	511	20.0	1.55	60	96	121	147	194	244	293	114	228	403	580	1640
24	.0201	404	25.2	1.22	53	85	108	131	173	217	265	101	203	358	516	1460
25	.0179	320	31.9	.970	47	76	96	116	154	193	236	90	181	319	459	1300
26	.0159	253	40.3	.765	42	68	85	103	137	172	210	80	161	283	408	1160
27	.0142	202	50.5	.610	38	60	76	92	122	153	187	71	143	253	364	1030
28	.0126	159	64.2	.481	33	54	67	82	108	136	166	63	127	224	323	920
29	.0113	128	79.7	.387	30	48	60	73	97	122	149	57	114	201	290	820
30	.0100	100	102	.303	27	43	54	65	86	108	132	50	101	178	256	730
31	.0089	79.2	129	.240	24	38	48	58	77	96	117	45	90	159	228	650
32	.0080	64.0	159	.194	21	34	43	52	69	86	106	40	81	143	205	580
33	.0071	50.4	202	.153	19	30	38	46	61	77	94	36	72	126	182	520
34	.0063	39.7	257	.120	17	27	34	41	54	68	83	32	64	112	162	460
35	.0056	31.4	325	.0949	15	24	30	36	48	60	74	28	57	100	144	410
36	.0050	25.0	408	.0757	13	21	27	33	43	54	66	25	50	89	128	360
37	.0045	20.2	505	.0613	12	19	24	29	39	48	59	23	45	80	116	320
38	.0040	16.0	638	.0484	11	17	21	26	34	43	53	20	40	71	103	290
39	.0035	12.2	836	.0371	9	15	19	23	30	38	46	18	35	62	90	260
40	.0031	9.61	1061	.0291	8	13	17	20	27	33	41	16	31	55	80	230