

BARE COPPER WIRE



APPLICABLE STANDARDS AND TESTS

- ✓ ASTM B-1, B-3, B-8, B-33, B-172, B-174, and B-286
- ✓ UL44, UL 83, UL 1581, and UL2556
- ✓ QQ-W-343E, NMX-J-451-ANCE
- ✓ CSA C22.2 No 38-10

VALUE ADD SERVICE

- ✓ Custom lengths and put-ups
- ✓ 12 available colors
- ✓ Wire paralleling and cabling
- ✓ Wire stripping
- ✓ Custom print legends and labels

SCOPE

Solid or stranded, uncoated or coated copper wire in hard or soft annealed tempers for all applicable uses.

CONSTRUCTION

Conductors: Solid and stranded conductors shall meet the requirements of ASTM B-1, B-3, ASTM B-8, B-33, B-174, B-286.

IDENTIFICATION AND PACKAGING

Wire shall be identified by package labeling in accordance with standard commercial practice.

AWG	Solid		7, 19, 37 Strand ASTMB-8 Class B		7 and 19 Strand ASTMB-8 Class C		Bunch-Stranded ASTMB-174 Class K			Rope-Lay Stranded ASTM B-172		
	OD (IN)	LBS/ MFT	OD (IN)	LBS/ MFT	OD (IN)	LBS/ MFT	OD (IN)	NUMBER OF STRANDS	LBS/ MFT	OD (IN)	NUMBER OF STRANDS	LBS/ MFT
22	.0254	1.9	-	-	-	-	-	-	-	-	-	-
20	.0325	3.1	-	-	-	-	-	-	-	-	-	-
18	.0403	5.1	-	-	-	-	.048	16	5.1	-	-	-
16	.0508	7.8	.055	7.9	-	-	.059	26	8.0	-	-	-
14	.064	12.4	.071	12.7	0.69	12.7	.076	41	12.7	-	-	-
12	.081	19.8	.092	20.2	0.87	20.2	.090	65	20.1	-	-	-
10	.102	31.4	.116	32.1	.110	32.1	.118	105	32.4	-	-	-
8	.129	50.0	.146	51.0	-	-	-	-	-	.166	133	52.9
6	.162	79.4	.184	81.1	-	-	-	-	-	.210	133	83.5
4	.204	126.3	.232	128.9	-	-	-	-	-	.257	133	133.0
2	.258	200.9	.292	204.9	-	-	-	-	-	.328	133	209.7
1	-	-	.332*	258.4	-	-	-	-	-	.365	133	260.3
1/0	-	-	.373*	325.8	-	-	-	-	-	.464	133	342.4
2/0	-	-	.419	410.9	-	-	-	-	-	-	-	-
3/0	-	-	.470	518.1	-	-	-	-	-	-	-	-
4/0	-	-	.528	653.3	-	-	-	-	-	-	-	-
250 MCM	-	-	.575	771.9	-	-	-	-	-	-	-	-
300 MCM	-	-	.628	926	-	-	-	-	-	-	-	-
350 MCM	-	-	.679	1081	-	-	-	-	-	-	-	-
400 MCM	-	-	.728	1234	-	-	-	-	-	-	-	-
500 MCM	-	-	.814	1545	-	-	-	-	-	-	-	-



SNAP FOR MORE INFORMATION

Spec: Bare Copper Wire
 Issued: 05/29/2024
 Supersedes: 03/08/2024

BARE COPPER WIRE



AWG	RESISTANCE @ 20°C (Ω/1000')				
	Solid	7, 19, 37 Strand ASTM B-8 Class B	7 and 19 Strand ASTM B-8 Class C	Bunch-Stranded ASTM B-174 Class K	Rope-Lay Stranded ASTM B-172
22	16.5	-	-	-	-
20	10.3	-	-	-	-
18	6.52	-	-	-	-
16	4.1	4.1	-	-	-
14	2.57	2.62	2.62	2.62	-
12	1.62	1.65	1.65	1.65	-
10	1.02	1.039	1.039	1.039	-
8	0.641	0.654	-	-	0.66
6	0.403	0.411	-	-	0.415
4	0.254	0.259	-	-	0.261
2	0.159	0.163	-	-	0.164
1	-	0.129	-	-	0.132
1/0	-	0.102	-	-	0.104
2/0	-	0.0811	-	-	-
3/0	-	0.0643	-	-	-
4/0	-	0.051	-	-	-
250 MCM	-	0.0432	-	-	-
300 MCM	-	0.036	-	-	-
350 MCM	-	0.0308	-	-	-
400 MCM	-	0.027	-	-	-
500 MCM	-	0.0216	-	-	-



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