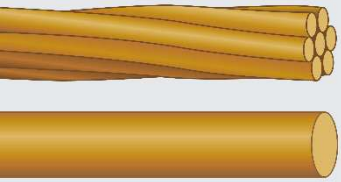
KRIS-TECH PRODUCT SPECIFICATIONS

BARE COPPER WIRE



MADE IN U. S. A.

RoHS COMPLIANT

APPLICABLE TESTS AND STANDARDS

- ✓ ASTM B-1 AND B-3
- ✓ ICEA S-95-658/NEMA WC70

VALUE ADD SERVICE

- ✓ CUSTOM LENGTHS AND PUT-UPS
- ✓ 12 AVAILABLE COLORS
- ✓ WIRE PARALLELING AND CABLING
- ✓ WIRE STRIPING
- ✓ CUSTOM PRINT LEGENDS AND LABELS

SNAP FOR MORE INFORMATION

SCOPE

Bare copper wire is used primarily for grounding and does not have a protective coating or insulation. Depending on the application, bare copper wires can be solid or stranded, and hard drawn, medium-hard drawn, or soft annealed.

CONSTRUCTION

Conductors: Single conductors are solid or stranded uncoated copper.

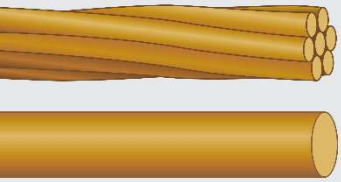
IDENTIFICATION AND PACKAGING

Print legends on the wire shall include the manufacturer, conductor size, voltage rating, UL symbol (if applicable) and type designation. Standard length spools are 500 or 2500 feet.

	Solid		ASTM B-8 Class B Stranding		ASTM B-8 Class C Stranding		ASTM B-174 Class K Bunch Stranding			ASTM B-172 Rope-Lay Stranding		
AWG/ MCM	OD (IN)	LBS / 1000′	OD (IN)	LBS / 1000′	OD (IN)	LBS / 1000′	OD (IN)	NUMBER OF STRANDS	LBS / 1000′	OD (IN)	NUMBER OF STRANDS	LBS / 1000′
20	0.032	3.2	0.038	3.4	-	-	-	-	-	-	-	-
18	0.040	4.9	0.046	4.9	-	-	0.046	16	4.7	-	-	-
16	0.051	7.8	0.058	7.9	0.055	7.9	0.059	26	8.0	-	-	-
14	0.064	12.4	0.073	12.6	0.074	12.6	0.076	41	12.7	-	-	-
12	0.081	19.7	0.092	20.0	0.092	20.0	0.090	65	20.1	-	-	-
10	0.102	31.3	0.116	31.3	0.117	32.0	0.118	105	32.4	-	-	-
8	0.128	49.8	0.146	50.9	0.148	50.9	-	-	-	0.163	133	52.6
6	0.163	79.9	0.184	80.7	0.179	80.7	-	-	-	0.205	133	82.8
4	0.204	125.6	0.232	128.4	0.235	128.5	-	-	-	0.257	133	129.3
3	-	-	0.260	162.8	-	-	-	-	-	-	-	-
2	0.258	200.9	0.292	204.3	0.296	204.2	-	-	-	0.324	133	204.8
1	-	-	0.332	257.7	-	-	-	-	-	-	-	-
1/0	-	-	0.372	324.4	-	-	-	-	-	-	-	-
2/0	-	-	0.419	409.5	-	-	-	-	-	-	-	-
3/0	-	-	0.470	516.5	-	-	-	-	-	-	-	-
4/0	-	-	0.528	650.6	0.511	657.3	-	-	-	-	-	-
250	-	-	0.575	777.1	-	-	-	-	-	-	-	-
300	-	-	0.630	931.5	-	-	-	-	-	-	-	-
350	-	-	0.682	1088.8	0.682	1079.7	-	-	-	-	-	-
400	-	-	0.761	1243.9	-	-	-	-	-	-	-	-
500	-	-	0.812	1552.8	-	-	-	-	-	-	-	-

KRIS-TECH PRODUCT SPECIFICATIONS

BARE COPPER WIRE



MADE IN U. S. A.

RoHS COMPLIANT

RESISTANCE @ 20°C (Ω/1000')*					
AWG/MCM	Solid	ASTM B-8 Class B Stranding	ASTM B-8 Class C Stranding	ASTM B-174 Class K Stranding	ASTM B-172 Rope-Lay Stranding
20	10.3	10.6	10.6	-	-
18	6.52	6.66	6.66	-	-
16	4.10	4.18	4.18	-	-
14	2.57	2.62	2.62	2.62	-
12	1.62	1.65	1.65	1.65	-
10	1.019	1.039	1.039	1.04	1.04
8	0.6407	0.6535	0.6535	0.666	0.654
6	0.4031	0.4112	0.4112	0.419	0.419
4	0.2535	0.2585	0.2585	0.263	0.263
3	0.2010	0.2050	0.2050	0.211	0.209
2	0.1594	0.1626	0.1626	0.167	0.166
1	0.1264	0.1289	0.1289	0.133	0.132
1/0	0.1002	0.1022	0.1022	0.105	0.105
2/0	0.07949	0.08108	0.08108	0.0843	0.0834
3/0	0.06306	0.06431	0.06431	0.0668	0.0662
4/0	0.04999	0.05099	0.05099	0.053	0.0525
250	-	0.04316	0.04316	0.0449	0.0449
300	-	0.03597	0.03597	0.0373	0.0373
350	-	0.03082	0.03082	0.0323	0.032
400	-	0.02698	0.02698	0.0283	0.028
500	-	0.02158	0.02158	0.0226	0.0224

*** Resistance values are derived from UL 1581 Tables 30.1–30.11.**

SNAP FOR MORE INFORMATION