



Kris-Tech Wire Co.

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1.0 Scope: This specification describes single conductor cathodic protection cable. It is used for direct earth burial DC feeder cable for cathodic protection systems, storage tanks, pipelines, wells, ocean vessels, and metallic structures buried or water submerged. These products are available, upon request, as UL listed.

2.0 Applicable Standards:

- 2.1 ASTM B-1, B-3, B-8, B-33, B-172, and B-173 for soft drawn annealed copper conductors
- 2.2 ASTM D-1248, NEMA WC-5, ICEA S-61-402 for High Molecular Weight Polyethylene (HMWPE).
- 2.3 UL 83, UL 1581 and UL 2556.

3.0 Conductors: The single copper conductors shall be solid or stranded annealed or hard uncoated copper per UL83 and ASTM requirements.

4.0 Insulation: The conductor shall be insulated with black, sunlight resistant polyethylene complying with the physical and electrical properties per ASTM D-1248, Type I, Class A thru D, Cat 4, and Grades E4-E5. Types II, III, and IV are available on request. The insulation shall be concentrically applied and the minimum at any point shall not be less than 90% of the specified average thickness. Rated at 75°C, 600 volts.

5.0 Identification: The wire shall be identified by surface marking indicating the manufacturer and AWG size. UL listed products will be identified and surface printed in accordance with the UL requirements.

6.0 Packaging: Long length bulk reels are standard. Custom lengths are available by request.

7.0 Tests: The wire shall be tested in accordance with UL 1581 and 2556 to meet the requirements of UL and ASTM standards. All wire will be spark tested at 7500 VAC unless otherwise specified.

AWG	Standard Number of Strands	Bending Radius (inches)	Insulation Thickness (inches)	Nominal Overall Diameter – Inches (standard strands)	Approx. Shipping Weight (Lbs./Mft.)	Nominal DC Resistance OHM/1000 ft. @ 20°C
14	7	1.16	.110	.29	38	2.624
12	7	1.24	.110	.31	48	1.650
10	7	1.36	.110	.34	62	1.038
8	7	1.48	.110	.37	87	0.653
6	7	1.60	.110	.40	122	0.411
4	7	1.80	.110	.45	175	0.258
2	7	2.04	.110	.51	260	0.162
1	19	2.32	.125	.58	330	0.129
1/0	19	2.48	.125	.62	405	0.102
2/0	19	2.64	.125	.66	495	0.081

Custom construction, packaging, and colors available by quotation.