



Kris-Tech Wire Co.

Halar®/HMWPE Cathodic Protection Cable



Scope: Single conductor cathodic protection cable is designed to withstand corrosive gases and brackish water conditions. It is used for direct earth burial DC feeder cable for cathodic protection systems, tanks, pipelines, wells, ocean vessels, and metal structures buried or water submerged.



Applicable Standards and Tests:

ASTM B-1, B-3, B-8, B-33, B-172, and B-173 for soft drawn annealed copper conductors, ASTM D1248, D-638, D-639, D-792, D-257, NEMA WC-5, ICEA S-61-402, IEC 60502 for HMWPE, UL 1581 and UL 2556. All wire will be spark tested at 7500 VAC unless otherwise specified.



Construction:

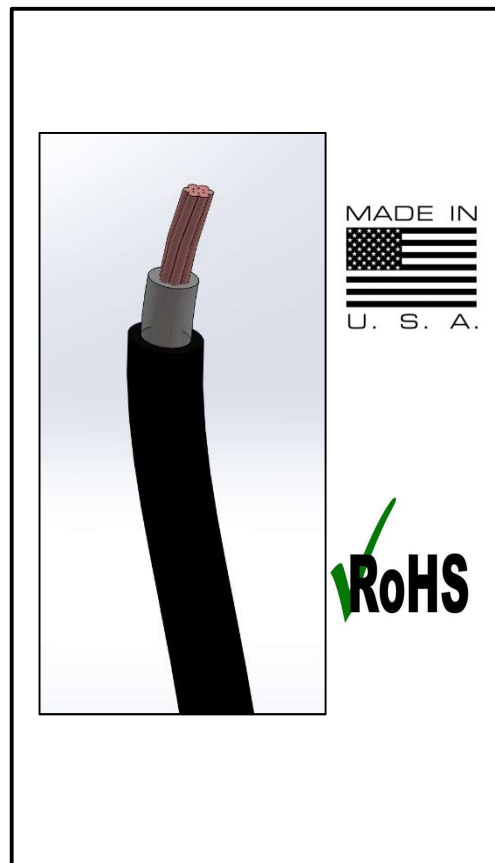
Conductors: Solid or stranded, annealed or hard, uncoated or coated copper per UL83 and ASTM requirements.

Insulation: Concentrically applied homogeneous layer of ECTFE (often referred to as Halar®) and jacketed by black, sunlight resistant, HMWPE (high molecular weight polyethylene), Type I, Class C, Cat 4, and Grades E4-E5. Types II, III, IV, (MDPE, HDPE,) and Cat 5 are available. Rated at 75°C, 600 volts.



Identification and Packaging:

The wire may be identified by surface marking, the manufacturer, and AWG size. Long length bulk reels are standard. Custom lengths, non-standard colors, AWG, and custom packaging are available by request.



AWG	Standard Number of Strands	Maximum Pulling Tension (pounds)	Bending Radius (inches)	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal Overall Diameter (inches)	Approx. Shipping Weight (Lbs./Mft.)	Nominal DC Resistance OHM/1000 ft. @ 20°C
8	7	132	1.28	0.020	0.065	0.32	98	0.653
6	7	210	1.40	0.020	0.065	0.35	115	0.411
4	7	333	1.68	0.020	0.065	0.42	167	0.258
2	7	530	1.84	0.020	0.065	0.46	251	0.162
1	19	670	2.00	0.020	0.065	0.50	311	0.129
1/0	19	845	2.36	0.020	0.065	0.56	373	0.102
2/0	19	1000	2.50	0.020	0.065	0.59	500	0.081
3/0	19	1187	2.74	0.020	0.065	0.64	609	0.064
4/0	19	1399	3.00	0.020	0.065	0.70	752	0.051