

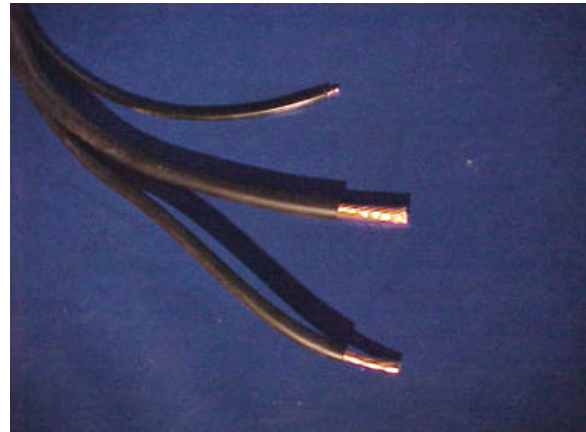
# HMWPE

## Direct Burial Cable

### Multi-Purpose Cathodic Protection Cable

Selecting the right cable for connecting anodes, power supplies, and structures is an important part of any cathodic protection design. Corrpro makes this selection process easy by offering a cable manufactured specifically for the cathodic protection industry. It is composed of copper wire, which is covered by high-molecular-weight polyethylene (HMWPE). The copper wire is stranded and annealed to permit extra flexibility. Because the polyethylene on the cable is approximately twice as thick as on conventional HMWPE wire, it serves as both electrical insulator and mechanical cover for the conductor. This provides Corrpro's cathodic protection cable with outstanding dielectric strength and moisture resistance. During installation, the cable can withstand considerable mechanical abuse without risk of damage to the copper electrical conductor. The polyethylene cover is also chemically resistant, and protects against most organic and inorganic substances.

Corrpro's HMWPE cable is manufactured according to strict quality control standards. The polyethylene coating is made to meet American Society for Testing Materials Standard D-1248 for plastic molding and extruded materials. In addition, routine tests are performed to ensure that the cable possesses certain mechanical and electrical properties.



### Typical Applications

HMWPE cable is offered in a variety of sizes. It can be used as a header cable on cathodic protection systems, or to make anode-lead or negative-return connections. The thick polyethylene cover permits direct burial of the cable in native soils or submersion in freshwater. The cable exhibits superior flexibility, and can be bent without risk of notch propagation. It is not recommended for use in environments containing chlorine, hydrochloric acid, or petroleum hydrocarbons.



#### Corrpro Companies Europe Limited

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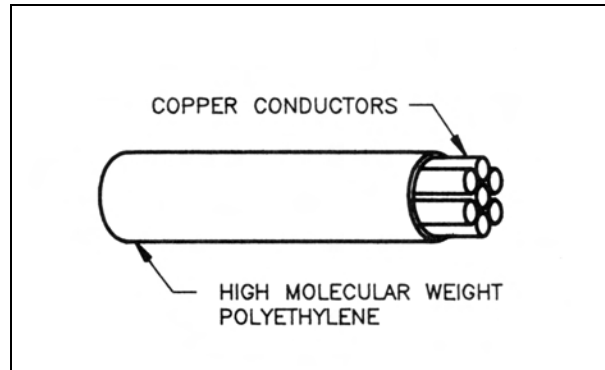
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### Ordering Procedure

Corrpro's HMWPE cable is readily stocked in a range of wire sizes, and is available for immediate shipping. To order the right cable for your particular application, indicate that you need Corrpro HMWPE cable, and specify the lineal feet and wire size desired. An example is provided to help illustrate this process.

Ordering Procedure Example	
ITEM	EXAMPLE
Quantity (Lineal Feet)	<i>2,000 ft.</i>
Wire Size	<i>#4 AWG</i>
Wire Type	<i>HMWPE</i>



### HMWPE Order Information

WIRE SIZE		NUMBER OF STRANDS	INSULATION THICKNESS		NOMINAL O.D.	
AWG	(mm <sup>2</sup> )		in.	(mm)	in.	(mm)
14	(2.5)	7	0.11	(2.794)	0.299	(7.59)
12	(4)	7	0.11	(2.794)	0.31	(7.87)
10	(6)	7	0.11	(2.794)	0.34	(8.64)
8	(10)	7	0.11	(2.794)	0.36	(9.14)
6	(16)	7	0.11	(2.794)	0.41	(10.41)
4	(25)	7	0.11	(2.794)	0.46	(11.68)
2	(35)	7	0.11	(2.794)	0.52	(13.21)
1	(45)	19	0.125	(3.175)	0.59	(14.99)
1/0	(50)	19	0.125	(3.175)	0.63	(16.00)
2/0	(70)	19	0.125	(3.175)	0.67	(17.02)
4/0	(120)	19	0.125	(3.175)	0.78	(19.81)



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