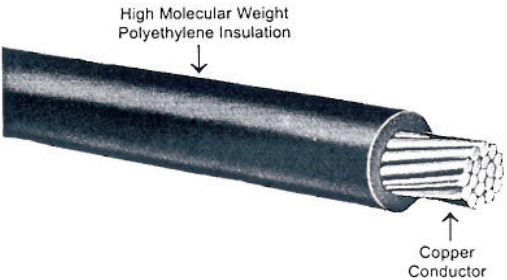


ROME HMW POLYETHYLENE CATHODIC PROTECTION CABLE

Single Conductor, Copper, 600 Volts

<p>APPLICATION: A direct earth burial, dc feeder cable for use in cathodic protection systems for pipelines, storage tanks, pilings, well casings, cables, marine craft and structures and other buried or water-submerged metallic structures.</p> <p>STANDARDS:</p> <ol style="list-style-type: none"> 1. Stranded copper conductors conform to ASTM Specification B-3 and B-8, latest edition. 2. High molecular weight Polyethylene Insulation conforms to ASTM Specification D-1248, Type I, Class C, Category 4 or 5, Grades E-5, J-1 and J-3. <p>CONSTRUCTION: Annealed, uncoated, stranded copper conductor, Rome HMW Polyethylene Black insulation, surface printed.</p>				 <p>High Molecular Weight Polyethylene Insulation</p> <p>Copper Conductor</p>				
Size AWG	No. of Strands	Area		Conductor Diameter Inches	Insulation Thickness Mils	Nominal Diameter Inches	Approx. Net Weight Lb./1000 Ft.	Nominal d-c Resistance (ohms/1000 Ft. @ 25°C)
		cm	mm ²					
8	7	16510	8.367	.142	110	.37	87	.652
6	7	26240	13.30	.179	110	.40	122	.411
4	7	41740	21.15	.225	110	.45	175	.258
2	7	66360	33.62	.283	110	.51	260	.162
1	19	83690	42.41	.322	125	.58	330	.129
1/0	19	105600	53.50	.362	125	.62	401	.102
2/0	19	133100	67.44	.406	125	.66	492	.081
4/0	19	211600	107.2	.512	125	.77	750	.051

Information on this sheet subject to change without notice.

Specification

ROME HMW POLYETHYLENE CATHODIC PROTECTION CABLE, 600 VOLTS

1. SCOPE

- 1.1 This specification describes a special single conductor high molecular weight polyethylene insulated cable designed for direct earth burial DC service in cathodic protection installations for cables, pipelines, well casings, water storage tanks and other buried or water-submerged metallic structures.

2. APPLICABLE STANDARDS

- 2.1 The following standards form a part of this specification to the extent specified herein:
 - 2.1.1 ASTM Specification B3, latest edition, for Soft or Annealed Copper Wire.
 - 2.1.2 ASTM Specification B8, latest edition, for Concentric-Lay Stranded Copper Conductors.
 - 2.1.3 ASTM Specification D1248, latest edition, for Polyethylene Plastic Molding and Extrusion Materials.
 - 2.1.4 ICEA Pub. No. S-95-658 / NEMA Pub. No. WC70 for Nonshielded Power Cables Rated 2000 Volts or Less.

3. CONDUCTOR

- 3.1 The copper conductors shall be Class B Stranded, compressed, annealed, uncoated copper in accordance with ASTM B3 and B8.

4. INSULATION

- 4.1 The conductor shall be insulated with Rome High Molecular Weight Polyethylene insulation complying with the physical and electrical requirements of ASTM Specification D-1248, latest edition.
- 4.2 The average thickness of insulation shall be 110 mils for conductor size 8-2 AWG and 125 mils for size 1-4/0 AWG. The minimum thickness at any point shall be not less than 90% of the specified average thickness. The insulation shall be applied tightly to the conductor and shall be free-stripping.

5. IDENTIFICATION

- 5.1 The insulated cable shall be surface ink printed with: "Conductor Size, Manufacturer, HMW/PE CATHODIC PROTECTION CABLE."

6. TESTS

- 6.1 The completed cable shall be tested in accordance with the requirements of ICEA Pub. No. S-95-658, Section 6.

7. SHIPPING

- 7.1 Shipping lengths shall be as specified for the individual order.
- 7.2 Packaging shall be in accordance with standard commercial practices.