Rome Cable
CORPORATION

SPEC 7883

January 1, 2001

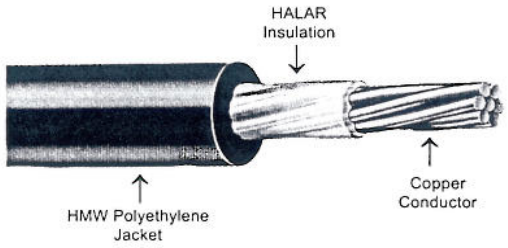
ROME HALAR® / HMW POLYETHYLENE CATHODIC PROTECTION CABLE

Single Conductor, Copper, 600 Volts

APPLICATION: As direct burial dc feeder cable for use in deep anode ground-bed cathodic protection systems. Cable is ideally suited for use in harsh chemical environments involving brackish water, sour gas, chlorine, acids, alkalis and petroleum based solvents. Cables may be used to provide cathodic protection for well casings, storage tanks, pilings, pipelines, cables, marine craft and other buried or water-submerged metallic structures.

STANDARDS:
1. Annealed stranded copper conductors conforming to ASTM B 8.
2. HALAR® natural ECTFE fluoropolymer insulation.
3. High Molecular Weight Polyethylene insulating jacket conforming to ASTM D 1248, Type 1, Class C, Category 4 or 5, Grades E-5 and J-1.

CONSTRUCTION: Annealed, uncoated, stranded copper conductor, HALAR® fluoropolymer primary insulation, black HMW Polyethylene insulating jacket, surface printed.



Size AWG	No. of Strands	Area		Conductor Diameter Inches	Thickness in Mils		Nominal Diameter Inches	Approx. Net Weight Lb./1000 Ft.	Nominal d-c Resistance (ohms/1000 Ft. @ 25°C)
		cm	mm²		Insulation	Jacket			
8	7	16510	8.36	.142	20	65	.32	81	.652
6	7	26240	13.30	.179	20	65	.36	116	.411
4	7	41740	21.15	.225	20	65	.41	170	.258
2	7	66360	33.62	.283	20	65	.46	254	.162

Information on this sheet subject to change without notice.

Rome Cable
CORPORATION

SPEC 7883

1-1-01

Specification

ROME HALAR® / HMW POLYETHYLENE CATHODIC PROTECTION CABLE

Single Conductor, Copper, 600 Volts

1. SCOPE

1.1 This specification describes a special single conductor size 8 AWG - 2 AWG, HALAR® insulated, High Molecular Weight Polyethylene jacketed cable designed for use as a direct burial feeder in deep anode ground-bed cathodic protection systems. The cable is ideally suited for use in harsh chemical environments involving brackish water, sour gas, chlorine, acids, alkalis and petroleum based solvents. The cable is suitable for use at voltages up to 600 volts ac or dc.

2. APPLICABLE STANDARDS

2.1 The following standards form a part of this specification to the extent specified herein:

2.1.1 ASTM Specification B 3, latest edition, for Soft or Annealed Copper Wire.

2.1.2 ASTM Specification B 8, latest edition, for Concentric-Lay Stranded Copper Conductors.

2.1.3 ASTM Specification D 1248, latest edition, for Polyethylene Plastics 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 conductor shall be Class B stranded, compressed, annealed, uncoated copper in accordance with ASTM B 3 and B 8.

4. INSULATION

4.1 The conductor shall be insulated with an extruded layer of natural HALAR® ECTFE fluoropolymer as a primary insulation.

4.2 The average thickness shall be 20 mils. 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. JACKET

5.1 A black High Molecular Weight Polyethylene jacket having both insulating and jacketing properties shall be extruded over the primary insulation. The jacket, before extrusion, shall comply with the physical and electrical requirements of ASTM Specification D 1248 for Type 1, Class C, Category 4 or 5, Grades E-5, J-1 and J-3 material.

5.2 The average jacket thickness shall be 65 mils. The minimum thickness shall be not less than 80% of the specified average thickness.

6. IDENTIFICATION

6.1 The cable shall be surface ink printed with: "Conductor Size AWG, CU, Manufacturer, HALAR/ HMWPE CATHODIC PROTECTION CABLE".

7. TESTS

7.1 The completed cable shall be tested in accordance with the requirements of ICEA S-95-658, Section 6.