

ROME INTERLOCKED ARMOR POWER CABLE, 600 VOLTS

3 Conductor, Rome-XLPE Insulated, Aluminum or Steel Armor, Insulated Ground Type MC

<p>APPLICATION: As 600 volt Type MC cable rated 90°C in wet or dry locations; for installation aerially or in metal rack, tray, trough, or cable trays; for power and control circuits not exceeding 600 volts in manufacturing and processing plants, substations and generating stations. For use in Theaters (Article 520), Motion Picture and TV Studios (Article 530) & places of assembly with more than 100 people. May be used in NEC Class I and II, Division 2 and Class III, Division 1 and 2 hazardous locations.</p> <p>STANDARDS:</p> <ol style="list-style-type: none"> Listed by UL as Type MC cable per Standard 1569. Individual conductors UL listed as Type XHHW-2 (90°C wet or dry) per UL Standard 44. Overall jacket UL listed as Sunlight Resistant. Cables pass UL and IEEE-383 ribbon burner tests and are UL listed For CT Use. Cables pass IEEE-1202/CSA FT4 (70,000BTU/hr) cable tray flame test. Cables pass ICEA 210,000 BTU/Hr. ribbon burner flame test. Cables conform to ICEA S-95-658, NEMA WC70 for Nonshielded Power Cables Rated 2000 Volts or Less. <p>CONSTRUCTION: Three conductors of stranded copper, Rome-XLPE (crosslinked polyethylene) insulation, surface printed, colored phase identification. Three conductors twisted together with one insulated uncoated copper grounding conductor, suitable fillers, binder tape, aluminum or galvanized steel interlocked armor.</p>								
Size Kcmil	No. of Strands	Insulation Thickness Mils	Nominal Diameter Over Armor Inches	Copper Phase Conductor				
				Green Insulated Grounding Conductor AWG	Approximate Net Wt. Lb./1000 Ft.		Ampacity of Each Cable	
					Aluminum Armor	Steel Armor	90°C	75°C
8	7	45	.850	10	350	519	55	50
6	7	45	.860	8	505	706	75	65
4	7	45	1.03	8	755	1001	95	85
2	7	45	1.15	6	1065	1343	130	115
1	19	55	1.30	6	1235	1740	150	130
1/0	19	55	1.38	6	1523	1856	170	150
2/0	19	55	1.41	6	1802	2165	195	175
3/0	19	55	1.56	4	2501	2690	225	200
4/0	19	55	1.56	4	2703	3053	260	230

**AMPACITY in accordance with the National Electrical Code for cables installed in uncovered cable tray without maintained spacing at the conductor temperature indicated in wet or dry locations, 30°C ambient temperature.

Information on this page subject to change without notice.

Specification

ROME INTERLOCKED ARMOR POWER CABLE, 600 VOLTS

3 Conductor, Rome-XLPE Insulated, Aluminum or Steel Armor, Insulated Ground

Type MC

1. SCOPE

- 1.1 This specification describes three conductor Rome-XLPE (thermosetting crosslinked polyethylene) insulated, aluminum or galvanized steel interlocked armor Type MC power cable for use in circuits not exceeding 600 volts phase-to-phase at conductor temperatures of 90°C in wet or dry locations for normal operation, 130°C for emergency overload conditions and 250°C for short circuit conditions. Cables are intended for installation indoors or outdoors, aerially, in metal rack, trough or cable trays.

2. STANDARDS

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

- 2.1.1 UL Standard 1569 for Type MC cable.
- 2.1.2 UL Standard 44 for Type XHHW-2 conductors.
- 2.1.3 ICEA Pub. No. S-95-658 and NEMA Pub. No. WC70 for Nonshielded Power Cables Rated 2000 Volts or Less.

3. CONDUCTORS

- 3.1 Class B stranded annealed, uncoated copper per Part 2 of ICEA.

4. SEPARATOR

- 4.1 A suitable separator over the conductor may be used at the option of the manufacturer.

5. INSULATION

- 5.1 A homogeneous wall of Rome-XLPE insulation shall be extruded over the conductor. The average thickness of insulation shall be as specified in UL Standard 44 for Type XHHW-2 conductors and in Table 3-4, Column B of ICEA. Minimum thickness at any point shall be not less than 90% of the specified thickness. Physical and electrical properties shall be in accordance with Table 3-7, Type X-2 of ICEA and Type XHHW-2 requirements of UL Standard 44.

6. PHASE IDENTIFICATION

- 6.1 The insulated phase conductors shall be colored Black, White and Red for phase identification.

7. ASSEMBLY

- 7.1 Three phase conductors shall be cabled together with a Class B stranded, Green insulated uncoated copper grounding conductor and suitable nonhygroscopic fillers to make round. Length of lay shall not exceed 35 times the phase conductor diameter. The grounding conductor shall comply with the requirements of UL Standard 1569.

8. CABLE TAPE

- 8.1 The cable assembly shall be covered with a suitable tape applied with a 10% minimum lap.

9. ARMOR

- 9.1 An aluminum or galvanized steel interlocked armor shall be applied over the cable core. Armor shall be in accordance with UL Standard 1569 and Paragraph 4.3.3 of ICEA.

10. IDENTIFICATION

- 10.1 An ink print legend shall be applied to the surface of the XLPE insulation of each phase conductor. A long with a Marker tape under the Interlocked Armor with (UL) Type MC.

11. TESTS

- 11.1 Cable shall be tested in accordance with UL requirements for Type MC cable and ICEA S-95-658.