

ROME INTERLOCKED ARMOR POWER CABLE, 600 VOLTS

4 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: Four conductors of stranded copper, Rome-XLPE (crosslinked polyethylene) insulation, surface printed, colored phase identification. Four conductors twisted together with one green 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	.83	10	440	635	44	40
6	7	45	.97	8	631	857	60	52
4	7	45	1.15	8	959	1237	76	68
2	7	45	1.32	6	1359	1643	104	92
1	19	55	1.45	6	1680	1998	120	104
1/0	19	55	1.56	6	1976	2337	136	120
2/0	19	55	1.61	6	2350	2545	156	140
3/0	19	55	1.76	4	2806	3216	180	160
4/0	19	55	1.82	4	3320	3905	208	184

*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 sheet subject to change without notice.

Specification

ROME INTERLOCKED ARMOR POWER CABLE, 600 VOLTS

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

Type MC

1. SCOPE

- 1.1 This specification describes four 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 3-1A, 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, Red and Blue for phase identification.

7. ASSEMBLY

- 7.1 Four phase conductors shall be cabled together with a Class B stranded, Green Insulated copper grounding conductor in one valley and suitable nonhygroscopic fillers in each valley to make cable round. Length of lay shall not exceed 35 times the phase conductor diameter.

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.