

ROME ALUMINUM METAL CLAD CABLE - TYPE MC

2, 3 or 4 THHN Conductors, Insulated Ground, 600 Volts

<p>APPLICATION: For power, lighting, control and signal circuits in commercial, industrial and utility installations. May be used for services, feeders and branch circuits, exposed or concealed, in cable tray, raceway, as open runs of cable, in NEC Class I and II, Div. 2 and Class III, Div. 1 and 2 hazardous locations, in environmental air handling ceilings, in theaters, in places of assembly, in dry locations at a maximum conductor temperature of 90°C and ac voltages up to 600 volts.</p> <p>STANDARDS:</p> <ol style="list-style-type: none"> Listed by Underwriters Laboratories as Type MC per UL Standard 1569 for Metal-Clad Cables. Individual conductors listed as Type THHN (90°C Dry) per UL Standard 83. One and two hour fire rated per ANSI/UL Std 1479 for walls, ceilings and floor assemblies. Conforms to Federal Specification J-C-30B. Conforms to National Electrical Code, Article 334. <p>CONSTRUCTION: Two, three or four circuit conductors of annealed solid or stranded uncoated copper with color coded PVC-Nylon (THHN) insulation, circuit conductors cabled with a green PVC-Nylon (THHN) grounding conductor, moisture resistant tape, aluminum interlocked armor cladding.</p>						
Trade Size	Ground Size	Nominal Diameter Inches	Approx. Wt. Lb./1000 Ft.	Ampacity	Standard Package	
					Coil	NR Reel
14-2 Sol	14	.460	92	15	250'	1000'
14-3 Sol	14	.475	112	15	250'	1000'
14-4 Sol	14	.500	132	15		
12-2 Sol	12	.492	120	20	250'	1000'
12-3 Sol	12	.531	149	20	250'	1000'
12-4 Sol	12	.579	179	20	250'	1000'
10-2 Sol	10	.562	171	30	250'	500'
10-3 Sol	10	.610	216	30	250'	500'
10-4 Sol	10	.641	261	30	250'	500'
8-2 Str	10	.756	266	55		
8-3 Str	10	.819	337	55		500'
8-4 Str	10	.887	416	44		
6-2 Str	8	.790	372	75		
6-3 Str	8	.855	480	75		500'
6-4 Str	8	.905	596	60		

NOTES:

- Color Coding: 2/C - black, white + green
3/C - black, white, red + green
4/C - black, white, red, blue + green
- Ampacities per Table 310-16 of NEC and Note 8 derating for four conductor cable.

Information on this sheet subject to change without notice.

Specification

ROME ALUMINUM METAL CLAD CABLE - TYPE MC

2, 3, or 4 THHN Conductors, Insulated Ground, 600 Volts

1. SCOPE

- 1.1 This specification describes two, three and four conductor Rome Aluminum Metal Clad Cable, Type MC, employing circuit conductors #14 to #6 AWG, solid or stranded copper with THHN insulation, an insulated green grounding conductor and aluminum interlocked armor cladding. The cables are suitable for use in dry locations at temperatures not exceeding 90°C on ac circuits up to 600 volts. Cables may be used in a wide variety of applications as described in Art. 334 and other articles of the NEC for power, lighting, control and signal circuits in commercial, industrial and utility applications. The cables are listed For CT Use and may be used in cable trays. They are also one and two hour fire rated per ANSI/UL 1479 for use in walls, ceilings and floor assemblies.

2. APPLICABLE STANDARDS

- 2.1 The following standards form a part of this specification to the extent specified herein:
 - 2.1.1 Underwriters Laboratories Standard 1569 for Metal-Clad Cables.
 - 2.1.2 Underwriters Laboratories Standard 83 for Thermoplastic Insulated Wires.
 - 2.1.3 Federal Specification J-C-30B.
 - 2.1.4 National Electrical Code - Article 334.

3. CONDUCTORS

- 3.1 Circuit conductors shall be solid or stranded annealed uncoated copper per UL Standard 1569 and UL Standard 83.

4. INSULATION

- 4.1 Each circuit conductor and the grounding conductor shall be insulated with PVC and jacketed with Nylon complying with the physical and electrical requirements of UL Standard 83 for Type THHN.
- 4.2 The average thickness of insulation, for a given conductor size, shall be as specified in UL Standard 83 for Type THHN. The minimum thickness at any point of the PVC insulation, shall not be less than 90% of the specified average thickness. The minimum thickness at any point of the nylon jacket, shall be as specified for Type THHN wire. The insulation shall be applied tightly to the conductor and shall be free-stripping.
- 4.3 Circuit conductor color coding shall be: 2/C - black, white; 3/C - black, white, red; 4/C - black, white, red, blue. The grounding conductor in each cable shall be green.

5. ASSEMBLY

- 5.1 The circuit conductors and an insulated grounding conductor sized in accordance with UL Standard 1569 shall be cabled together. Length of lay shall be in accordance with the requirements in UL Standard 1569.
- 5.2 The cabled assembly shall be covered with a moisture resistant tape applied with a suitable overlap.

6. ARMOR

- 6.1 An aluminum interlocked armor shall be applied over the cable core complying with the requirements of UL Standard 1569.

7. TESTS

- 7.1 Cable shall be tested in accordance with UL requirements for Type MC Metal-Clad Cable with THHN conductors.