**TYPE MC - ALUMINUM CONDUCTOR - ALUMINUM ARMOR - PVC JACKET - 600V THHN/THWN-2 CONDUCTORS (6 AWG - 4/0 AWG)**

### ENGINEERING SPECIFICATIONS

**Standards**
- Underwriters Laboratories® Standards UL-93, UL-1569, UL-1581, UL-2556 for type MC; Federal Specification AA-59544;
- IEEE 1202 (70,000 Btu/hr) Flame Test; NFPA 70 (NEC®) Article 330; NEMA RV-1; Compact Stranded Aluminum Alloy 8000 Series per ASTM B800, ASTM B801, ASTM B836; ARRA 2009 Section 1605 “Buy American” Compliant;
- RoHS Complaint; MasterSpec Division 26 Sections 260519, 260523; UL Listing #E-301130

**APPLICATIONS**
Type MC Cable shall be permitted as follows:
- Permitted for use services, feeders, and branch circuits in residential, commercial, industrial, and non-patient care area/space of health care facilities;
- Permitted for direct burial in the earth or when embedded in concrete per NEC 330.12(2)(a);
- Acceptable for power, lighting, control, and signal circuits;
- Allowable in concealed or exposed installations;
- Permitted in wet locations per NEC 330.10(A)(11);
- Allowable in assembly occupancies (NEC 518.4);
- Permissible in theaters, audience areas of motion pictures, television studios, and similar locations (NEC 520.5);
- Allowable installations in approved raceways and cable trays (NEC 392);
- Suitable for installations under raised floors for IT equipment (NEC 645.5(E));
- For use with branch circuits to swimming pool, hot tubs, and spa applications per 680.14 and 330.12(2)(a) and (b);
- Permitted in Class I Div. 2, Class II Div. 2, and Class III Div. 1 Hazardous Locations and listed for use in UL 1, 2, and 3-Hour Through-Penetration Firestop Systems.

**CONSTRUCTION**
Available in sizes 6 AWG through 750 KCMIL, Encore Wire’s Metal-Clad Cable is constructed with Compact Stranded Conductors, Aluminum Alloy 8000 Series per ASTM B800, ASTM B801 and ASTM B836. Type THHN/THWN-2 conductors rated 90°C dry. Sizes 6 AWG through 750 KCMIL contain a bare aluminum ground wire. All conductors are cabled together with separator tape, which contains the identification print legend. Interlocked aluminum armor is applied. Overall sunlight-resistant, flame-retardant black PVC jacket.

**AVAILABLE WITH LIGHTWEIGHT GALVANIZED STEEL ARMOR.**

### Standards
- Standards UL-83, UL-1569, UL-1581, UL-2556 for type MC; Federal Specification AA-59544;
- IEEE 1202 (70,000 Btu/hr) Flame Test; NFPA 70 (NEC®) Article 330; NEMA RV-1; Compact Stranded Aluminum Alloy 8000 Series per ASTM B800, ASTM B801, ASTM B836; ARRA 2009 Section 1605 “Buy American” Compliant;
- RoHS Complaint; MasterSpec Division 26 Sections 260519, 260523; UL Listing #E-301130

### Table: Phase Conductors, Ground Conductor, Diameter, Approximate Net Weight, Allowable Ampacity, Standard Packaging

<table>
<thead>
<tr>
<th>No. of Conductors</th>
<th>AWG or KCMIL/No. of Conductors</th>
<th>Insulation Thickness (in)</th>
<th>Nylon Thickness (in)</th>
<th>Bare Ground (AWG)</th>
<th>No. of Strands</th>
<th>Diameter over Armor (in)</th>
<th>PVC Jacket Thickness (in)</th>
<th>Diameter over PVC Jacket (in)</th>
<th>Approximate Net Weight (lbs/1000 ft)</th>
<th>75°C Allowable Ampacity (Amps)</th>
<th>90°C Allowable Ampacity (Amps)</th>
<th>Coils</th>
<th>Standard Packaging (ft)</th>
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1. Ampacity of conductors are based on the National Electrical Code (NFPA 70) Table 310.15(B)(16). See 110.14(C), 240.4(D) and 310.15(B) for other limitations where applicable.

### Additional colors available subject to ERG

### FEATURES
Installation costs reduced up to 50% over conduit and wire; aluminum armor is up to 45% less than steel; while not required by Section 330.40, insulating anti-shorts hushings are supplied with each reel; for ease of installation and pulling, cable is reverse wound on reels.
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<table>
<thead>
<tr>
<th>Type MC - Aluminum Conductor - Aluminum Armor - PVC Jacket - 600V</th>
<th>THHN/THWN-2 Conductors (250 KCMIL - 750 KCMIL)</th>
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</thead>
</table>

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