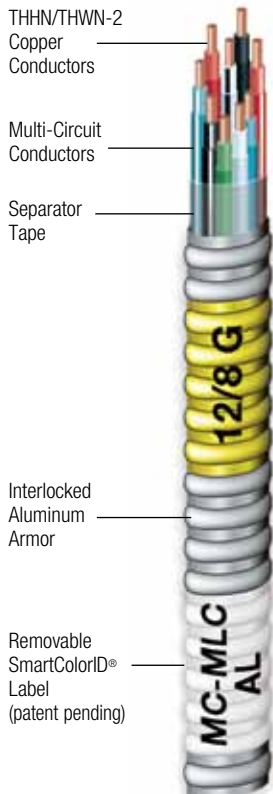


TYPE MC-COPPER CONDUCTOR-MULTI-CIRCUIT-ALUMINUM ARMOR THHN/THWN-2 INNERS



ENGINEERING SPECIFICATIONS:



Listed E-301130



SmartColorID®

Standards:

Underwriters Laboratories Standards UL-83, UL-1569 for type MC, NEMA WC 70/CEA 5-95-658, Federal Specification A-A59544, IEEE 1202 (70,000 Btu/hr) Vertical Cable Tray Flame Test, and the National Electrical Code (NEC), and ARRA 2009; Section 1605 "Buy American" Compliant

Applications:

- Type MC cable shall be permitted as follows:
- Permitted multiple circuits use for services, feeders, and branch circuits in industrial, commercial, and multi-residential buildings
 - Acceptable for power, lighting, control, and signal circuits
 - Allowable in concealed or exposed systems
 - Permitted use in dry locations and embedded in plaster finish on brick or other masonry except in damp or wet locations
 - Utilized for environmental air-handling spaces (NEC 300.22)(C)
 - 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 installation under raised floors for IT equipment (NEC 645.5)
 - Permitted in Class I Div. 2, Class II Div. 2, and Class III Div. 1 Hazardous Locations
 - Listed for use in UL 1, 2, and 3 Hour Through-Penetration Firestop Systems

CONSTRUCTION:

Available in sizes 12 AWG and 10 AWG with an insulated green ground conductor. Encore Wire Metal Clad Cable is constructed with soft-drawn copper, Type THHN/THWN-2 conductors rated 90°C dry locations. All conductors are cabled together with a separator tape containing the identification print legend to form the cable core. Interlocked aluminum armor is applied over the entire assembly.

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Type MC-Copper Conductor-Multi-Circuit-Aluminum Armor THHN/THWN-2 Innings 600V

Circuit Conductor AWG/No.	Conductor Type	Ground Conductor AWG/No.	Overall Diameter (in)	Approximate Net Weight (lbs/1000 ft)	Standard Packaging	
					Coil (ft)	Reel (ft)
12/6	Solid	12/1	0.550	209	250'	1000'
12/8	Solid	12/1	0.636	262	250'	1000'
12/12	Solid	12/1	0.721	358	200'	1000'
10/6	Solid	10/1	0.651	311	200'	1000'
10/8	Solid	10/1	0.756	391	125'	1000'
10/12	Solid	10/1	0.936	552	125'	1000'
12/6	Stranded	12/1	0.581	214	250'	1000'
12/8	Stranded	12/1	0.656	268	200'	1000'
12/12	Stranded	12/1	0.736	366	200'	1000'
10/6	Stranded	10/1	0.681	322	200'	1000'
10/8	Stranded	10/1	0.771	401	125'	1000'

Note: Consult Section 310.15 of the National Electrical Code, for ampacities. Data reflects cables manufactured with aluminum-interlocked armor. The above data is approximate and subject to normal manufacturing tolerances.

Features:

Installation costs reduced up to 50% over conduit and wire. Weight of aluminum armor is as much as 45% less than steel. Insulating anti-short bushings are supplied with each reel or coil. SmartColorID® labels are spaced at regular intervals on the exterior of the metal sheathing and are removable. For ease of installation and pulling, cable is reverse wound on reels. Coils are designed to be pulled from the inside.

SmartColorID® Legend:



See page 104 for complete legend

Standard Conductor Color Coding

Number of Conductors	120/208Y
6	Black/Black-White Stripe White/White-Black Stripe (Neutral) Red/Red-White Stripe Green Ground conductor
8	Black/Black-White Stripe White/White-Black Stripe (Neutral) Red/Red-White Stripe Blue/Blue-White Stripe Green Ground conductor
12	Black/Black-White Stripe/Black-Red Stripe White/White-Black Stripe/White-Red Stripe (Neutral) Red/Red-White Stripe/Red-Black Stripe Blue/Blue-White Stripe/Blue-Red Stripe Green Ground conductor