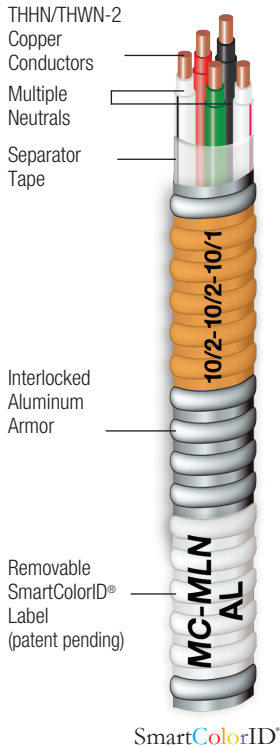


TYPE MC-COPPER CONDUCTOR-MULTIPLE NEUTRAL-ALUMINUM ARMOR THHN/THWN-2 INNERS



ENGINEERING SPECIFICATIONS:

Standards:

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



Listed E-301130



SmartColorID®

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 oversized neutral conductors or one neutral per phase and one insulated 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.

Type MC - Copper Conductor-Multiple Neutral - Aluminum Armor THHN/THWN-2 Inners 600V

Phase Conductor AWG/No.	Conductor Type	Neutral Conductor AWG/No.*	Ground Conductor** AWG/No.	Overall Diameter (in)	Approximate Net Weight (lbs/1000 ft)	Standard Packaging (ft)	
						Coils	Reels
12/2	Solid	12/2	12/1	0.508	152.67	250'	1000'
12/3	Solid	12/3	12/1	0.555	202.35	250'	1000'
12/4	Solid	10/2	12/1	0.599	232.77	250'	1000'
12/4	Solid	12/3	12/1	0.570	226.28	250'	1000'
12/6	Solid	10/2	12/1	0.655	289.00	200'	1000'
12/8	Solid	10/2	12/1	0.706	343.00	200'	1000'
10/2	Solid	10/2	10/1	0.590	226.58	200'	1000'
10/3	Solid	10/3	10/1	0.650	304.32	200'	1000'
10/4	Solid	10/2	10/1	0.650	304.32	200'	1000'
10/4	Solid	8/2	10/1	0.696	372.00	125'	1000'
10/6	Solid	8/2	10/1	0.755	452.00	125'	1000'
10/8	Solid	8/2	10/1	0.814	531.00	125'	1000'
12/2	Stranded	12/2	12/1	0.529	156.51	250'	1000'
12/3	Stranded	12/3	12/1	0.580	207.34	250'	1000'
12/4	Stranded	12/3	12/1	0.596	231.77	200'	1000'
10/2	Stranded	10/2	10/1	0.618	233.69	200'	1000'
10/3	Stranded	10/3	10/1	0.682	313.65	200'	1000'
10/4	Stranded	10/2	10/1	0.682	313.65	200'	1000'

Note: Consult Section 310.15 of the National Electrical Code, for ampacities. Data reflects cables manufactured with aluminum-interlocked armor.

*Conductor sizes 8 AWG and larger are stranded.

The above data is approximate and subject to normal manufacturing tolerances.

**Double Ground available upon request

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

Multiple Neutrals	Color	Phase Conductors	120V/280Y
2	White-Black Stripe White-Red Stripe	2	Black/Red
3	White-Black Stripe White-Red Stripe White-Blue Stripe	3	Black/Red/Blue
		4	Black/Red/Blue/Orange
		6	Black/Red/Blue/Orange/Yellow/ Brown
8		8	Black/Red/Blue/Orange/Yellow/ Brown/Red with Black Stripe/ Blue with Black Stripe
		Ground	Color
		1	Green

Additional colors available subject to ERQ