

Type MC (Metal Clad Cable)



Lightweight Aluminum Interlocked Armor. 600 Volts.
Copper Power Conductors. THHN/THWN Insulated Singles.
Green Insulated Grounding Conductor.
Sizes 14 AWG through 2 AWG. Rated VW-1

Application:

Type MC Cable is suitable for use as follows:

- Branch, feeder and service power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Power, lighting, control, and signal circuits.
- Fished or embedded in plaster.
- Concealed or exposed installations.
- Environmental air-handling spaces per NEC 300.22 (C).
- Places of Assembly per NEC 518.4 and theaters per NEC 520.5.
- Installation in cable tray and approved raceways.
- Under raised floors for information technology equipment conductors and cables per NEC 645.5(D) & 645.5(D)(2).
- Class I Div. 2, Class II Div 2, & Class III Div. 1 Hazardous Locations.

Structure:

Type MC Cable is constructed with soft-drawn copper, Type THHN/THWN conductors rated 90°C dry available in sizes 14 AWG through 2 AWG, and a green insulated grounding conductor. The conductors are cabled together and a binder tape bearing the print legend is wrapped around the assembly. Aluminum interlocking armor is applied over the assembly.

Standard:

Type MC Cable meets or exceeds the requirements of the following

- UL 83
- UL 1569
- UL 1685
- Federal Specification A-A59544 (formerly J-C-30B)
- FT4/IEEE 1202 (70,000 Btu/hr) Vertical Cable Tray Flame Test
- NEC
- Listed for use in UL 1, 2 and 3 Hour Through Penetration Firestop Systems

UL File No.:

E530424

Voltage:

600V

Working temperature:

in dry locations only at temperature not to exceed 90°C.

Performance:

VW-1 Flame retardant;

Oil resistant;

UV resistant.

Printing:

COMMODITY CABLES (UL) E530424 *AWG *C + *AWG TYPE MC 600V TYPE THHN
INSULATED CONDUCTOR FOR USE IN CABLE TRAYS */20**

Number of conductors	Color	
2	BLACK,WHITE	
3	BLACK,WHITE,RED	
4	BLACK,WHITE,RED,BLUE	
Ground conductor	GREEN	

Technical data:

Conductor Size+ (AWG)	Solid or Stranded	Grounding Conductor Size (AWG) and Stranding	Overall Diameter (inches)	Weight (lbs./1000ft.)	Ampacity (Amps)		
					60C	75C	90C
14-2	Solid	14- 1	0.433	100	15	15	15
12-2	Solid	12- 1	0.469	129	20	20	20
12-3	Solid	12- 1	0.501	157	20	20	20
12-4	Solid	12- 1	0.537	187	20	20	20
10-2	Solid	10- 1	0.537	181	30	30	30
10-3	Solid	10- 1	0.577	225	30	30	30
10-4	Solid	10- 1	0.622	270	30	30	30
8-3	7	10-7	0.706	320	40	50	55
8-4	7	10-7	0.754	408	40	50	55
6-3	7	8-7	0.785	471	55	65	75
6-4	7	8-7	0.862	580	55	65	75

Note:

Ampacity are based on Table 310.16 of the NEC, 2008 Edition.

‡Allowable ampacities shown are for general use as specified by the National Electrical Code, 2008 Edition, Section 310.15.