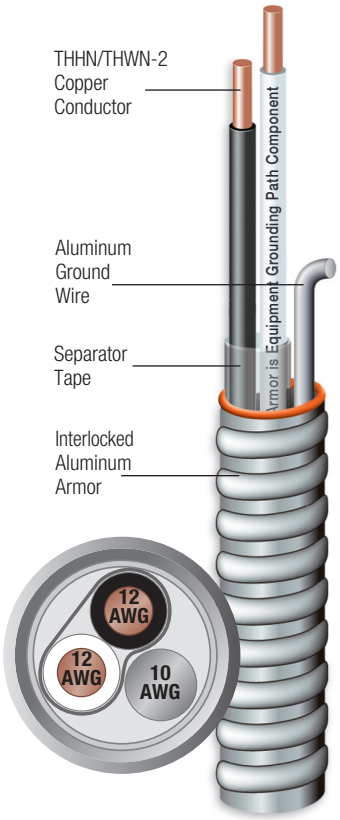

ENGINEERING SPECIFICATIONS:

MCMP™ multipurpose

Listed E-301130

ENCORE WIRE RoHS COMPLIANT

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, and the National Electrical Code (NEC).

Applications:

Type MC cable shall be permitted as follows:

- Permitted use for services, feeders, and branch circuits in industrial, commercial, and multi-residential buildings
- Acceptable for power, lighting, control, and signal circuits
- Utilized for indoor or outdoor applications
- 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)
- Allowable in assembly occupancies (NEC 518.4)
- Permissible in Theaters, audience areas of motion pictures, television studios, and similar locations (NEC 520.5)
- Permitted as aerial cable on a messenger
- 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:

Conductors:

Available in sizes 14-10 AWG. Encore's Metal Clad Cable is constructed with soft-drawn copper, Type THHN/THWN-2 conductors rated 90°C dry/75°C wet locations. All conductors are cabled together with binder tape, containing the identification print legend, to form the cable core. The bare aluminum grounding/bonding conductor is located outside the binding tape and is cabled with the insulated conductors and in constant contact with sheathing. Interlocked aluminum armor is applied over the entire assembly.

Type MC-Copper Conductor Aluminum Armor-Multi Purpose/THHN/THWN-2

Conductors			Outside Diameter Over Armor (inches)	Total Weight of Type MC-Copper Conductor (lbs./1000 ft.)	Allowable Ampacity (amps)*			Standard Packaging	
AWG/No.	Type	Ground			60°C	75°C	90°C	Coil (ft.)	Reel (ft.)
14/2	Solid	12 Solid AL	0.401	72	15	15	15	250'	1000'
14/3	Solid	12 Solid AL	0.427	89	15	15	15	250'	1000'
14/4	Solid	12 Solid AL	0.456	108	15	15	15	250'	1000'
12/2	Solid	10 Solid AL	0.436	95	20	20	20	250'	1000'
12/3	Solid	10 Solid AL	0.467	123	20	20	20	250'	1000'
12/4	Solid	10 Solid AL	0.506	148	20	20	20	250'	1000'
10/2	Solid	8 Solid AL	0.502	133	30	30	30	250'	1000'
10/3	Solid	8 Solid AL	0.541	173	30	30	30	250'	1000'
10/4	Solid	8 Solid AL	0.583	218	30	30	30	250'	1000'

Available in strand by request.
Note: Ampacities are based on Table 310.16 of the NEC. *Ampacities shown are for general use as specified by the NEC, Section 310.15.
For equipment marked for use at higher temperatures, the conductor ampacity shall be limited to the following per NEC 110.14(C):
60°C when terminated to equipment for circuits rated 100 amperes or less or marked for size 14 AWG through 1 AWG conductor.
75°C when terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG.
90°C for ampacity derating purposes.
When the neutral is considered current-carrying conductor, the ampacity of 4/C cables shall be reduced by a factor of 0.80 per NEC 310.15(B)(2)(a).
Additional conductor sizes are available up to 4/0 AWG. Grounding conductors 8 AWG and larger are stranded.
The above data is approximate and subject to normal manufacturing tolerances.

Features:

The NEC 250.118 (10) (A). recognizes the combination of interlocking armor and bond wire as an equipment grounding conductor. Installation costs reduced by 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. Suitable for type MCI-A fittings. For ease of installation and pulling, cable is reverse wound on reels. Coils are designed to be pulled from the inside.

Standard Conductor Color Coding

Number	120/208Y
2	Black/White
3	Black/Red/White
4	Black/Red/Blue/White
Ground	Green

Number	277/480Y
2	Brown/Gray
2	Orange/Gray
2	Yellow/Gray
2	Purple/Gray
3	Brown/Yellow/Gray
3	Brown/Orange/Gray
4	Brown/Orange/Yellow/Gray
4	Brown/Yellow/Purple/Gray
Ground	Green

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