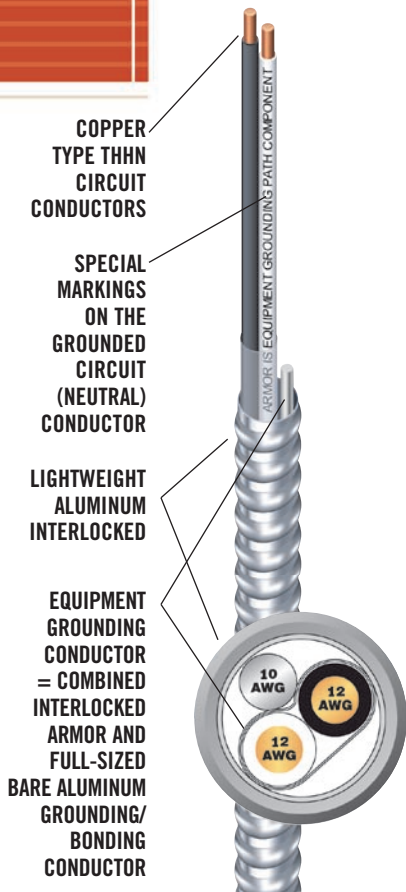


# MC<sup>AP</sup> TYPE MC

## ALL PURPOSE



**“All Purpose” MC<sup>AP</sup> Cable May Be Used Wherever Standard AC or MC Cable is Permitted**

**Lightweight Aluminum Interlocked Armor**

**600 Volt**

**Copper THHN Insulated Circuit Conductors**

**Full-sized Aluminum Equipment Grounding/Bonding Conductor**

**Sizes 14, 12, and 10 AWG**

**UL Listed Rated VW-1**

### APPLICATIONS

Suitable for use as follows:

- Branch-circuit wiring in commercial, industrial, institutional, and multi-residential buildings
- Power, lighting, control, and signal circuits in concealed or exposed installations
- Fished or embedded in plaster
- 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)

### STANDARDS & REFERENCES

Southwire MC<sup>AP</sup> Type MC Cable fully meets the applicable requirements of UL 1569 Standard for Metal-Clad Cables, NFPA 70 National Electrical Code, UL 83 Standard, UL 1063 Standard, Federal Specification A-A59544 (formerly J-C-30B), and IEEE 1202 (70,000 BTU/hr) Vertical Cable Tray Flame Test. Southwire MC<sup>AP</sup> Cable is listed for use in UL 1, 2, and 3 Hour Through-Penetration Firestop Systems.

### CONSTRUCTION

- Southwire MC<sup>AP</sup> Type MC Cable is constructed with soft-drawn copper Type THHN circuit conductors rated 90°C dry and a full-sized bare aluminum grounding/bonding conductor.
- It is available in sizes 14 – 10. The insulated conductors are cabled together and wrapped with a binder tape bearing the print legend. The bare aluminum grounding/bonding conductor is located outside of the binder tape covering and has the same lay as the insulated conductors. Aluminum interlocked armor is snugly wrapped around the conductor assembly. The aluminum metal sheath (armor) and bare aluminum conductor, which are in intimate contact throughout the entire length of the cable, form an assembly, which is the equipment grounding conductor for the cable
- To insure proper cable termination, refer to the installation instructions provided with every reel and coil

### FEATURES

- An armor assembly that is an equipment grounding conductor per 2005 NEC 250.118(10)(a)
- Installation instructions provided with every reel and coil
- Simplified armored product application and installation
- Faster conductor make-up, wiring device installation and trim-out when terminating the grounding/bonding conductor at the armor per installation instructions
- Reduces installation costs up to 50% over pipe and wire
- Cable reverse wound on reel for ease of pulling and installation. When pulling from coils, pull from inside to ensure ease of installation UL Classified 1, 2, and 3 Hour Through-Penetration Firestop Systems: W-J-3037, W-L-3110, W-L-3113, W-L-3117, W-L-3120, W-L-3121, W-L-3160, C-AJ-3115, C-AJ-3140, C-AJ-3142, C-AJ-3145, C-AJ-3173, C-AJ-3202, C-AJ-4065, C-AJ-4066, F-C-3038



# MC CABLE

MC<sup>AP</sup> TYPE MC ALL PURPOSE

## WEIGHTS, MEASUREMENTS AND PACKAGING

CONDUCTOR SIZE (AWG)/ # OF PHASE CONDUCTORS	CONDUCTOR TYPE*	GROUNDING/ BONDING CONDUCTOR	OVERALL DIAMETER (inches)	WEIGHT (lbs/1000 ft)	AMPACITY (AMPS)†			STANDARD PACKAGE	
					60°C	75°C	90°C	COIL (feet)	REEL (feet)
14 / 2	Solid	12 solid AL	0.385	63	15	15	15	250	1000
14 / 3	Solid	12 solid AL	0.410	78	15	15	15	250	1000
14 / 4	Solid	12 solid AL	0.435	96	15	15	15	250	1000
12 / 2	Solid	10 solid AL	0.430	88	20	20	20	250	1000
12 / 3	Solid	10 solid AL	0.445	110	20	20	20	250	1000
12 / 4	Solid	10 solid AL	0.480	134	20	20	20	250	1000
10 / 2	Solid	8 solid AL	0.485	123	30	30	30	250	1000
10 / 3	Solid	8 solid AL	0.520	162	30	30	30	250	1000
10 / 4	Solid	8 solid AL	0.565	202	30	30	30	250	1000

Note: Ampacities are based on Table 310.16 of the NEC, 2005 Edition.  
 \*Circuit sizes 12 AWG and 10 AWG also available as stranded conductors.  
 †Allowable ampacities shown are for general use as specified by the National Electrical Code, 2005 Edition, Section 310.15. If the equipment is 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 through 1 AWG conductors.  
 75°C - When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than size 1 AWG.  
 90°C - For ampacity derating purposes.  
 Per NEC 310.15(B)(2)(a), the ampacity of 4/C cables shall be reduced by a factor of 0.80 when the neutral is considered a current-carrying conductor.

# OF CONDUCTORS	COLOR SEQUENCE	COLOR CODING
2		black, white
3		black, white, red
4		black, white, red, blue

Other special colors are available subject to economic order quantity.

# OF CONDUCTORS	COLOR SEQUENCE	COLOR CODING
		277/480Y
2		brown, grey
2		orange, grey
2		yellow, grey
2		purple, grey
3		brown, yellow, grey
3		brown, orange, grey
4		brown, orange, yellow, grey
4		brown, yellow, purple, grey

FULL ENGINEERING SPECIFICATIONS AVAILABLE AT [WWW.SOUTHWIRE.COM/COMMERCIALPRODUCTSPECS](http://WWW.SOUTHWIRE.COM/COMMERCIALPRODUCTSPECS)