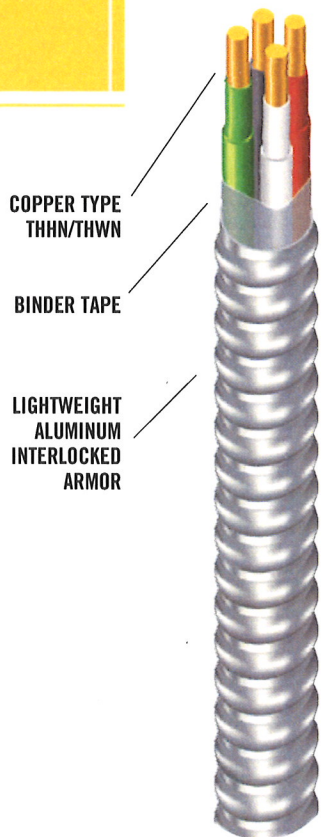


# ARMORLITE® TYPE MC



COPPER TYPE  
THHN/THWN

BINDER TAPE

LIGHTWEIGHT  
ALUMINUM  
INTERLOCKED  
ARMOR

Lightweight Aluminum  
Interlocked Armor

600 Volt

Copper Power  
Conductors

THHN/THWN  
Insulated Singles

Green Insulated  
Grounding Conductor

Sizes 14 AWG  
through 2 AWG

Rated VW-1

## APPLICATIONS 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
- As aerial cable on a messenger
- 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

## STANDARDS & REFERENCES

- Southwire Armorlite® Type MC Cable meets or exceeds the requirements of UL Standard 83, UL Standard 1063, UL Standard 1569 for Type MC, Federal Specification A-A59544 (formerly J-C-30B), IEEE 1202 (70,000 BTU/hr) Vertical Cable Tray Flame Test and the National Electrical Code®
- Southwire Armorlite® Type MC Cable is listed for use in UL 1, 2 and 3 Hour Through-Penetration Firestop Systems

## CONSTRUCTION

- Southwire Armorlite® Type MC Cable is constructed with soft-drawn copper, Type THHN/THWN conductors rated 90°C dry / 75°C wet, available in sizes 14 AWG through 750 kcmil and a green insulated grounding conductor (sizes 1/0 AWG and larger furnished with bare grounding conductor)
- The conductors are cabled together and a binder tape bearing the print legend is wrapped around the assembly
- Aluminum interlocked armor is applied over the assembly. Refer to color chart for conductor color sequence

## FEATURES

- Reduces installation costs up to 50% over pipe and wire
- Lightweight aluminum armor—as much as 45% lighter than steel MC Cable
- 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
- Cable reverse wound on reel for ease of pulling and installation; when pulling from coils, pull from inside to ensure ease of installation

<sup>1</sup> 2005 Edition





**HVAC**

**ARMORLITE® TYPE MC**

**WEIGHTS, MEASUREMENTS, AND PACKAGING**

CONDUCTOR SIZE* (AWG)	CONDUCTOR TYPE	GROUNDING CONDUCTOR SIZE (AWG)**	OVERALL DIAMETER (inch)	WEIGHT (lbs/1000 ft)	ALLOWABLE AMPACITIES†			STANDARD PACKAGE	
					60°C	75°C	90°C	COIL (feet)	REEL (feet)
14/2	Solid	14	0.439	78	15	15	15	250	1000
14/3	Solid	14	0.464	96	15	15	15	250	1000
14/4	Solid	14	0.494	114	15	15	15	250	1000
12/2	Stranded	12	0.494	110	20	20	20	250	1000
12/2	Solid	12	0.475	105	20	20	20	250	1000
12/3	Stranded	12	0.527	137	20	20	20	250	1000
12/3	Solid	12	0.505	131	20	20	20	250	1000

Note: Ampacities are based on Table 310.16 of the NEC® 2005 Edition.

†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.

\*Available in sizes up to 750 kcmil.

\*\*All grounding conductors 8 AWG and larger will be stranded.

# OF CONDUCTORS	COLOR SEQUENCE	COLOR CODING	
		120/208Y	
2		white, black	<input type="checkbox"/> <input type="checkbox"/>
3		white, black, red	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
4		white, black, red, blue	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Grounding Conductor		green	<input type="checkbox"/>

Other special colors are available subject to economic order quantity.

# OF CONDUCTORS	COLOR SEQUENCE	COLOR CODING	
		277/480Y	
2		brown, grey	<input type="checkbox"/> <input type="checkbox"/>
2		orange, grey	<input type="checkbox"/> <input type="checkbox"/>
2		yellow, grey	<input type="checkbox"/> <input type="checkbox"/>
2		purple, grey	<input type="checkbox"/> <input type="checkbox"/>
3		brown, yellow, grey	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
3		brown, orange, grey	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
4		brown, orange, yellow, grey	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
4		brown, yellow, purple, grey	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Grounding Conductor		green	<input type="checkbox"/>

