

# Armorlite® Type MCAP Multi-Circuit

Lightweight Aluminum Interlocked Armor. 600 Volts.  
Copper Power Conductors. THHN/THWN Insulated Singles.  
Full-Sized Aluminum Equipment Grounding/Bonding Conductor.  
Sizes 12 AWG and 10 AWG. Rated VW-1.



## APPLICATIONS

Southwire Armorlite® Type MCAP Cable - "Multi-Circuit" is suitable for use as follows:

- Multiple circuits for 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.

## SPECIFICATIONS

Southwire Armorlite® Type MCAP Cable - "Multi-Circuit" meets or exceeds the requirements of UL Standard 83, UL Standard 1569 for Type MC, UL Standard 1685, Federal Specification A-A59544 (formerly J-C-30B), Jacketed & Non Jacketed will both pass " UL Test" & "FT4/IEEE 1202" (70,000 Btu/hr) Vertical Cable Tray Flame Test, and the National Electrical Code. Southwire Armorlite® Type MC Cable - Standard PVC Jacket will not meet "Limited Smoke or LS Rating". Optional SOLONON Jacket can be provided for "LS" Rating. Southwire Armorlite® Type MC Cable - "Multi-Circuit" is listed for use in UL 1, 2, and 3 Hour Through-Penetration Firestop Systems.




## CONSTRUCTION









Southwire Armorlite® Type MCAP Cable - "Multi-Circuit" is constructed with soft-drawn, copper Type THHN/THWN conductors rated 90°C dry/75°C wet, available in sizes 12 AWG and 10 AWG, and a full-sized aluminum equipment grounding/bonding 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. Refer to color chart for conductor color sequence.

# MCAP Multi-Circuit

Circuit Conductor Size (AWG) / # of Cond.	Solid or Stranded	Grounding Conductor Size (AWG) / # of Cond.	Weight (lbs./1000 ft.)	Outside Diameter (inches)	Standard Package	
					Coil (feet)	Reel (feet)
12/6	solid	10/1	209	0.516	250	1000
12/8	solid	10/1	262	0.589	250	1000
12/12	solid	10/1	386	0.684	250	1000
10/6	solid	8/1	411	0.610	-----	1000
10/8	solid	8/1	419	0.701	250	1000
12/6	stranded	10/1	218	0.544	250	-----
12/8	stranded	10/1	273	0.622	250	-----
10/6	stranded	8/1	314	1.205	250	-----
10/8	stranded	8/1	437	1.028	250	-----

Note: Consult Section 310.15 of the National Electrical Code, 2011 Edition for ampacities. Conductors with solid colors have print ID. Data reflects products manufactured with aluminum interlocked armor.

NUMBER OF CONDUCTORS	COLOR SEQUENCE 120/208Y
2	black, white 
2	blue, white 
2	red, white 
3	black, white, red 
4	black, white, red, blue 
Bonding Conductor	Bare Aluminum

NUMBER OF CONDUCTORS	COLOR SEQUENCE 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 
Bonding Conductor	Bare Aluminum

## 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.
- Anti-short bushings are not required for use with MC cable per the NEC and UL

## COLOR CODING Standard Products

Color Sequence 120/208Y		
6 Conductor w/ Ground	8 Conductor w/ Ground	12 Conductor w/ Ground



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# MCAP Multi-Circuit

<p>Black Red White (neutral)</p> <p>Black w/ White Stripe Red w/ White Stripe White w/ Black Stripe (neutral)</p> <p>Bare Aluminum Ground</p>	<p>Black Red Blue White (neutral)</p> <p>Black w/ White Stripe Red w/ White Stripe Blue w/ White Stripe White w/ Black Stripe (neutral)</p> <p>Bare Aluminum Ground</p>	<p>Black Red Blue White (neutral)</p> <p>Black w/ White Stripe Red w/ White Stripe Blue w/ White Stripe White w/ Black Stripe (neutral)</p> <p>Black w/ Red Stripe Red w/ Black Stripe Blue w/ Red Stripe White w/ Red Stripe (neutral)</p> <p>Bare Aluminum Ground</p>
<p>Note: Conductors with solid colors have Print ID. Color Sequence for 277/480Y High Voltage Color Systems and other special colors and constructions are available subject to economic order quantity.</p>		

## ONLINE CERTIFICATIONS & TOOLS

- UL Online Certification Directory ( [www.ul.com](http://www.ul.com) )
- UL Online Product Guide Info - Metal-Clad Cable (PJAZ) ( [www.ul.com](http://www.ul.com) )