

# Armorlite®

## Type MCAP Multi-Circuit



14 AWG through 10 AWG Copper THHN/THWN Insulated Singles. Full-Sized Aluminum Equipment Grounding/Bonding Conductor. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor is Part of Equipment Grounding/Bonding Path.

### APPLICATIONS

#### Suitable for use as follows:

- Multiple circuits for branch, feeder and service power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Fished or embedded in plaster.
- Concealed or exposed installations.
- Use with UL Listed MCI-A fittings.
- 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.

### SPECIFICATIONS

#### Southwire Armorlite® Type MCAP Cable - Multi-Circuit meets or exceeds these requirements:

- UL Standard 83
- UL Standard 1569 for Type MC
- UL Standard 1685
- UL Online Product Guide Info - Metal-Clad Cable (PJAZ) ( [www.ul.com](http://www.ul.com) )
- NFPA 70 (National Electrical Code), Article 330
- 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 - "Multi-Circuit" is listed for use in UL 1, 2, and 3 Hour Through-Penetration Firestop Systems.
- REACH/RoHS-2 (Chemical Limit) Compliant

### 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 14 AWG through 10 AWG, and full-sized aluminum equipment grounding/bonding conductor located outside binder tape that is in constant contact with the armor. 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. The aluminum armor and bare aluminum conductor are in intimate contact and together form the equipment ground path. To insure proper installation, refer to the installation instructions provided with every reel and coil.



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# Armorlite® Type MCAP Multi-Circuit

CONDUCTOR SIZE AND COLORS	GROUNDING/BONDING SIZE	STOCK NUMBER	WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
		REEL (1000')		
<b>SOLID CONDUCTOR COLORS 120/208V</b>				
12-6 SOLID (BLACK/BLACK-WHITE/WHITE/WHITE- BLACK/RED/RED-WHITE)	10 SOLID ALUMINUM (BARE)	56-72-46-02	181	.516
12-8 SOLID (BLACK/BLACK-WHITE/WHITE/WHITE- BLACK/RED/RED-WHITE/BLUE/BLUE-WHITE)	10 SOLID ALUMINUM (BARE)	55-88-32-02	238	.589
10-6 SOLID (BLACK/BLACK-WHITE/WHITE/WHITE- BLACK/RED/RED-WHITE)	8 SOLID ALUMINUM (BARE)	55-88-37-02	283	.650
10-8 SOLID (BLACK/BLACK-WHITE/WHITE/WHITE- BLACK/RED/RED-WHITE/BLUE/BLUE-WHITE)	8 SOLID ALUMINUM (BARE)	56-72-58-02	363	.701
<b>STRANDED CONDUCTOR COLORS 120/208V</b>				
12-6 STRANDED (BLACK/BLACK-WHITE/WHITE/WHITE- BLACK/RED/RED-WHITE)	10 SOLID ALUMINUM (BARE)	56-72-62-02	197	.544
12-8 STRANDED (BLACK/BLACK-WHITE/WHITE/WHITE- BLACK/RED/RED-WHITE/BLUE/BLUE-WHITE)	10 SOLID ALUMINUM (BARE)	56-72-60-02	253	.622
10-6 STRANDED (BLACK/BLACK-WHITE/WHITE/WHITE- BLACK/RED/RED-WHITE)	8 SOLID ALUMINUM (BARE)	56-72-67-02	297	.643
10-8 STRANDED (BLACK/BLACK-WHITE/WHITE/WHITE- BLACK/RED/RED-WHITE/BLUE/BLUE-WHITE)	8 SOLID ALUMINUM (BARE)	56-72-65-02	384	.741
Refer to NEC Section 310.15 for ampacities.				

## 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

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**COLOR CODING, Standard Products**

Color Sequence 120/208Y

6 Conductor w/ Ground

8 Conductor w/ Ground

12 Conductor w/ Ground

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

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NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F)	75°C (167°F)	90°C (194°F)
	Types: TW, UF	Types: RHW, THHW, THW, THWN, XHHW, USE, ZW	Types: TBS, SA, SIS, RHH, RHW-2, THHN, THHW, THW-2, THWN- 2, USE-2, XHH, XHHW, XHHW-2, ZW-2
<b>COPPER</b>			
18	-	-	14
16	-	-	18
14	15	20	25
12	20	25	30
10	30	35	40
8	40	50	55
6	55	65	75
4	70	85	95
3	85	100	115
2	95	115	130
1	110	130	145
1/0	125	150	170
2/0	145	175	195
3/0	165	200	225
4/0	195	230	260
250	215	255	290
300	240	285	320
350	260	310	350
400	280	335	380
500	320	380	430
600	350	420	475
700	385	460	520
750	400	475	535
800	410	490	555
900	435	520	585
1000	455	545	615
1250	495	590	665
1500	525	625	705
1750	545	650	735
2000	555	665	750
Per NEC 310.15(B)(5), the ampacity of 4/C cables shall be reduced by a factor of 0.80 when the neutral is considered a current-carrying conductor.			

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