

Armorlite®

Type MC Multi-Circuit – PVC Jacketed



14 AWG through 10 AWG Copper THHN/THWN Insulated Singles. Multiple Circuits. Green Insulated Grounding Conductor. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor. Sunlight Resistant Overall PVC Jacket.

APPLICATIONS

Southwire Armorlite® Type MC Cable - Multi-Circuit PVC Jacketed is suitable for use as follows:

- Multiple circuits for branch, feeder and service power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Suitable for Wet Location per NEC 330.10(11)
- Direct burial applications, embedded in concrete, and where exposed to cinder fills, strong chlorides, caustic alkalis, or vapors of chlorine or of hydrochloric acids.
- 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.
- 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's Armorlite® Type MC Cable - Multi-Circuit PVC Jacketed meets or exceeds the following requirements:

- UL 83
- UL 1569
- UL 1685
- UL Online Product Guide Info - Metal-Clad Cable (PJAZ) (www.ul.com)
- Federal Specification A-A59544 (formerly J-C-30B)
- NFPA 70 (National Electrical Code), Article 330
- Listed for use in UL 1, 2 and 3 Hour Through Penetration Firestop Systems
- Jacketed & Non Jacketed will both pass " UL Test" & "FT4/IEEE 1202" (70,000 Btu/hr) Vertical Cable Tray Flame Test
- REACH/RoHS-2 (Chemical Limit) Compliant

CONSTRUCTION

Southwire Armorlite® Type MC Cable - Multi-Circuit PVC Jacketed is constructed with 14 awg through 10 awg soft-drawn copper Type THHN/THWN conductors rated 90°C dry, and a green insulated grounding 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. A black sunlight resistant, flame retardant PVC jacket is applied over the armor. Print legend is included on the binder tape as well as the overall PVC jacket.



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CONDUCTOR SIZE AND COLORS	GROUNDING SIZE AND COLOR	STOCK NUMBER		WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
SOLID CONDUCTOR COLORS 120/208V					
12-8 SOLID (BLACK/BLACK-WHITE/WHITE/WHITE-BLACK/RED/RED-WHITE/BLUE/BLUE-WHITE)	12 SOLID (GREEN)				.747
10-8 SOLID (BLACK/BLACK-WHITE/WHITE/WHITE-BLACK/RED/RED-WHITE/BLUE/BLUE-WHITE)	10 SOLID (GREEN)				.90
Consult NEC Section 310.15 for ampacities.					

FEATURES

- Reduces installation costs up to 50% over pipe and wire.
- 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.
- Anti-short bushings are not required for use with MC cable per the NEC and UL

6 CONDUCTOR W/ GROUND	8 CONDUCTOR W/ GROUND	12 CONDUCTOR W/ GROUND
BLACK	BLACK	BLACK
RED	RED	RED
WHITE	BLUE	BLUE
BLACK W/ WHITE STRIPE	WHITE	WHITE
RED W/ WHITE STRIPE	BLACK W/ WHITE STRIPE	BLACK W/ WHITE STRIPE
WHITE W/ BLACK STRIPE	RED W/ WHITE STRIPE	RED W/ WHITE STRIPE
GREEN GROUND	BLUE W/ WHITE STRIPE	BLUE W/ WHITE STRIPE
	WHITE W/ BLACK STRIPE	WHITE W/ BLACK STRIPE
	GREEN GROUND	BLACK W/ RED STRIPE
		RED W/ BLACK STRIPE
		BLUE W/ RED STRIPE
		WHITE W/ RED STRIPE
		GREEN GROUND

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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
COPPER			
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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