

# Armorlite®

## Type MC PVC Jacketed



14 AWG through 2 AWG THHN/THWN Insulated Singles. Green Insulated Ground. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor. Sunlight Resistant Overall PVC Jacket.

### APPLICATIONS

Suitable for use as follows:

- 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.
- Branch, feeder and service power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Fished or embedded in plaster.
- Concealed or exposed installations
- Places of Assembly per NEC 518.4 and theaters per NEC 520.5.
- Installation in cable tray, approved raceways, or as aerial cable on a messenger.
- 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 – PVC Jacketed meets or exceeds the following requirements:

- UL 83, 1569, and 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 - PVC Jacketed is constructed with soft-drawn, copper Type THHN/THWN conductors rated 90°C dry/ 75°C wet, and a green insulated grounding conductor. The conductors are cabled together and a binder tape 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. The jacket is available in other colors upon request subject to economic order quantities.



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CONDUCTOR SIZE AND COLORS	GROUNDING SIZE AND COLOR	STOCK NUMBER		WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
		COIL (250')	REEL (1000')		
<b>SOLID CONDUCTOR COLORS 120/208V</b>					
14-2 SOLID (BLACK/WHITE)	14 SOLID (GREEN)	61-00-37-01	61-00-37-02	122	.539
14-3 SOLID (BLACK/WHITE/RED)	14 SOLID (GREEN)	61-00-41-01	61-00-41-02	142	.565
14-4 SOLID (BLACK/WHITE/RED/BLUE)	14 SOLID (GREEN)	61-00-45-01	61-00-45-02	162	.594
12-2 SOLID (BLACK/WHITE)	12 SOLID (GREEN)	61-00-50-01	61-00-50-02	152	.575
12-2 SOLID (RED/WHITE)	12 SOLID (GREEN)		56-10-41-02	152	.575
12-2 SOLID (BLUE/WHITE)	12 SOLID (GREEN)		56-10-45-02	152	.575
12-3 SOLID (BLACK/WHITE/RED)	12 SOLID (GREEN)	61-00-54-01	61-00-54-02	180	.605
12-4 SOLID (BLACK/WHITE/RED/BLUE)	12 SOLID (GREEN)	61-00-59-01	61-00-59-02	209	.639
10-2 SOLID (BLACK/WHITE)	10 SOLID (GREEN)	61-00-64-03	61-00-64-02	204	.642
10-2 SOLID (RED/WHITE)	10 SOLID (GREEN)		56-10-48-02	204	.642
10-2 SOLID (BLUE/WHITE)	10 SOLID (GREEN)		56-10-52-02	204	.642
10-3 SOLID (BLACK/WHITE/RED)	10 SOLID (GREEN)	61-00-68-03	61-00-68-02	247	.68
10-4 SOLID (BLACK/WHITE/RED/BLUE)	10 SOLID (GREEN)	61-00-74-01	61-00-74-02	291	.723
<b>SOLID CONDUCTOR COLORS 277/480V</b>					
14-3 SOLID (BROWN/ORANGE/GRAY)	14 SOLID (GREEN)		59-64-66-02	142	.565
12-2 SOLID (BROWN/GRAY)	12 SOLID (GREEN)	55-25-61-03	55-25-61-02	152	.575
12-2 SOLID (ORANGE/GRAY)	12 SOLID (GREEN)		55-33-77-02	152	.575
12-2 SOLID (YELLOW/GRAY)	12 SOLID (GREEN)	55-33-78-01	55-33-78-02	152	.575
12-3 SOLID (BROWN/ORANGE/GRAY)	12 SOLID (GREEN)	55-25-63-01	55-25-63-02	180	.605
12-3 SOLID (BROWN/YELLOW/GRAY)	12 SOLID (GREEN)		55-33-79-02	180	.605
10-2 SOLID (BROWN/GRAY)	10 SOLID (GREEN)	55-39-76-01	55-39-76-02	204	.642
10-2 SOLID (ORANGE/GRAY)	10 SOLID (GREEN)	55-33-73-01	55-33-73-02	204	.642
10-2 SOLID (YELLOW/GRAY)	10 SOLID (GREEN)	55-36-68-01	55-36-68-02	204	.642
10-3 SOLID (BROWN/ORANGE/GRAY)	10 SOLID (GREEN)		55-29-54-02	247	.68
10-3 SOLID (BROWN/YELLOW/GRAY)	10 SOLID (GREEN)		55-33-75-02	247	.68
10-4 SOLID (BROWN/ORANGE/YELLOW/GRAY)	10 SOLID (GREEN)	55-33-81-01	55-33-81-02	291	.723

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STRANDED CONDUCTOR COLORS 120/208V					
12-2 STRANDED (BLACK/WHITE)	12 STRANDED (GREEN)	56-14-39-01	56-14-39-02	160	.595
12-3 STRANDED (BLACK/WHITE/RED)	12 STRANDED (GREEN)		56-72-74-02	188	.637
12-4 STRANDED (BLACK/WHITE/RED/BLUE)	12 STRANDED (GREEN)		56-14-41-02	220	.664
10-2 STRANDED (BLACK/WHITE)	10 STRANDED (GREEN)		55-28-08-02	215	.67
10-2 STRANDED (RED/WHITE)	10 STRANDED (GREEN)		58-56-16-02	215	.67
10-2 STRANDED (BLUE/WHITE)	10 STRANDED (GREEN)		58-16-13-02	215	.67
10-3 STRANDED (BLACK/WHITE/RED)	10 STRANDED (GREEN)		55-36-31-02	261	.707
10-4 STRANDED (BLACK/WHITE/RED/BLUE)	10 STRANDED (GREEN)		55-64-20-02	308	.753
STRANDED CONDUCTOR COLORS 277/480V					
10-2 STRANDED (ORANGE/GRAY)	10 STRANDED (GREEN)		58-56-06-02	215	.67
10-2 STRANDED (YELLOW/GRAY)	10 STRANDED (GREEN)		58-56-09-02	215	.67

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE AND COLOR	STOCK NUMBER		WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
		COIL	REEL		
8-2 STRANDED (BLACK/WHITE)	10 STRANDED (GREEN)	61-00-73-01 (200')	61-00-73-02 (1000')	295	.744
8-3 STRANDED (BLACK/WHITE/RED)	10 STRANDED (GREEN)		61-01-03-02 (1000')	366	.778
8-4 STRANDED (BLACK/WHITE/RED/BLUE)	10 STRANDED (GREEN)		61-00-94-02 (1000')	411	.893
6-2 STRANDED (BLACK/WHITE)	8 STRANDED (GREEN)	61-00-81-03 (500')	61-00-81-02 (1000')	411	.856
6-3 STRANDED (BLACK/WHITE/RED)	8 STRANDED (GREEN)	61-00-84-04 (100')	61-00-84-03 (500')	521	.919
6-4 STRANDED (BLACK/WHITE/RED/BLUE)	8 STRANDED (GREEN)		61-00-99-03 (500')	631	.99
4-3 STRANDED (BLACK/WHITE/RED)	8 STRANDED (GREEN)		61-01-08-99	731	1.086
4-4 STRANDED (BLACK/WHITE/RED/BLUE)	8 STRANDED (GREEN)		61-00-90-99	903	1.177
3-3 STRANDED (BLACK/WHITE/RED)	6 STRANDED (GREEN)		55-42-85-99	887	1.153
3-4 STRANDED (BLACK/WHITE/RED/BLUE)	6 STRANDED (GREEN)		55-42-89-99	1096	1.252
2-3 STRANDED (BLACK/WHITE/RED)	6 STRANDED (GREEN)		61-01-12-99	1042	1.231
2-4 STRANDED (BLACK/WHITE/RED/BLUE)	6 STRANDED (GREEN)		55-56-38-99	1302	1.339

For allowable ampacities, refer to NEC 310.15.  
 Also available as stranded conductors.  
 Available in sizes up to 750 kcmil.

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## 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.
- 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

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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