

# Armorlite®

## Type MC PVC Jacketed Neutral Per Phase



14 AWG through 8 AWG Copper THHN/THWN Insulated Singles. Dedicated Neutral Conductor for Each Phase Conductor. Green Copper THHN Insulated Grounding Conductor. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor. Sunlight Resistant, Direct Burial Rated Overall PVC Jacket.

### APPLICATIONS

Southwire Armorlite® Type MC Cable –PVC Jacketed Neutral Per Phase is suitable for use as follows:

- Applications affected by harmonics generated from non-linear switching loads, such as computers, variable frequency drives, electrical test equipment, and office equipment.
- 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.
- Compliance with NEC 210.7 for multiple branch circuits.
- 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 Armorlite® Type MC Cable – PVC Jacketed Neutral Per Phase meets or exceeds the following requirements:

- UL 83, UL 1569, UL 1685
- UL Online Product Guide Info - Metal-Clad Cable (PJAZ) ( [www.ul.com](http://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 Neutral Per Phase is constructed with solid soft-drawn copper Type THHN/THWN phase conductors, a dedicated neutral per phase conductor, and an insulated copper grounding conductor. The conductors are cabled together and a binder tape bearing the print legend is applied over the conductors. Aluminum interlocking armor is applied over the cable 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 Power of Connections.™



CONDUCTOR SIZE AND COLORS	GROUNDING SIZE AND COLOR	STOCK NUMBER REEL (1000')	WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
12/2 SOLID (BLACK/RED) 12/2 SOLID (WHITE-BLACK/WHITE-RED)	12 SOLID (GREEN)	55-62-87-02	206	.639
Consult NEC 310.15 for ampacities. Additional constructions available by request.				

## FEATURES

- A dedicated neutral conductor for each phase conductor for compliance with NEC 210.7.
- 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

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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