

Armorlite® Type MC

Lightweight Aluminum Interlocked Armor. 600 Volts.
Copper Power Conductors. THHN/THWN Insulated Singles.
Green Insulated Grounding Conductor.
Sizes 14 AWG through 2 AWG. Rated VW-1.



APPLICATIONS

Southwire Armorlite® Type MC Cable is suitable for use as follows:

- 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.

STANDARDS & REFERENCES

Southwire Armorlite® Type MC Cable 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 is listed for use in UL 1, 2, and 3 Hour Through-Penetration Firestop Systems.

CONSTRUCTION

Southwire Armorlite® Type MC Cable is constructed with soft-drawn copper, Type THHN/THWN conductors rated 90°C dry/ 75°C wet, available in sizes 14 AWG through 2 AWG, 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. Refer to color chart for conductor color sequence.

Armorlite Type MC

Conductor Size+ (AWG)	Solid or Stranded*	Grounding Conductor Size (AWG) and Stranding	Overall Diameter (inches)	Weight (lbs./1000ft.)	Ampacity (Amps)‡			Standard Package	
					60°C	75°C	90°C	Coil (feet)	Reel (feet)
14/2	Solid	14 sol	.439	77	15	15	15	250	1000
14/3	Solid	14 sol	.464	94	15	15	15	250	1000
14/4	Solid	14 sol	.494	112	15	15	15	250	1000
12/2	Solid	12 sol	.475	104	20	20	20	250	1000
12/2	19	12-19	.494	110	20	20	20	250	1000
12/3	19	12-19	.527	137	20	20	20	250	1000
12/3	Solid	12 sol	.505	129	20	20	20	250	1000
12/4	19	12-19	.564	164	20	20	20	250	750
12/4	Solid	12 sol	.539	155	20	20	20	250	750
10/2	19	10-19	.566	158	30	30	30	250	750
10/2	Solid	10 sol	.542	150	30	30	30	250	750
10/3	Solid	10 sol	.58	189	30	30	30	250	500
10/3	19	10-19	.607	200	30	30	30	250	500
10/4	19	10-19	.653	243	30	30	30	250	500
10/4	Solid	10 sol	.623	229	30	30	30	250	500
8/2	19	10-19	.678	235	40	50	55	200	500
8/3	19	10-19	.732	307	40	50	55	200	500
8/4	19	10-19	.793	378	40	50	55	125	500
6/2	19	8-19	.716	333	55	65	75	125	500
6/3	19	8-19	.819	441	55	65	75	125	500
6/4	19	8-19	.89	545	55	65	75	100	500
4/3	19	8-19	.986	635	70	85	95	100	500
4/4	19	8-19	1.077	800	70	85	95	100	500
3/3	19	6-19	1.053	786	85	100	110	100	500
3/4	19	6-19	1.152	988	85	100	110	100	500
2/3	19	6-19	1.13	934	95	115	130	100	500
2/4	19	6-19	1.239	1183	95	115	130	100	500

Note: Ampacities are based on Table 310.16 of the NEC, 2008 Edition.

‡ Allowable ampacities shown are for general use as specified by the National Electrical Code, 2008 Edition, Section 310.15.

If the equipment is marked for use at higher temperatures, the conductor ampacity shall be limited to the following per NEC 110.14(C).

60°C - When terminated to equipment for circuits rated 100 amperes or less or marked for size 14 through 1 AWG conductors.

75°C - When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than size 1 AWG.

90°C - For ampacity derating purposes.

Per NEC 310.15(B)(2)(a), the ampacity of 4/C cables shall be reduced by a factor of 0.80 when the neutral is considered a current-carrying conductor.

+ Available in sizes up to 750 kcmil.

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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

No. of Conductors	Color Sequence 120/208Y
2	Black, White
3	Black, White, Red
4	Black, White, Red, Blue
Grounding Conductor	Green

No. of Conductors	Color Sequence 277/480Y High Voltage
2	Brown, Gray
2	Orange, Gray
2	Yellow, Gray
2	Purple, Gray
3	Brown, Yellow, Gray
3	Brown, Orange, Gray
4	Brown, Orange, Yellow, Gray
4	Brown, Yellow, Purple, Gray
Grounding Conductor	Green

Other special colors are available subject to economic order quantity.

ONLINE CERTIFICATIONS & TOOLS

- UL Online Certification Directory (www.ul.com)
- UL Online Product Guide Info - Metal-Clad Cable (PJAZ) (www.ul.com)



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