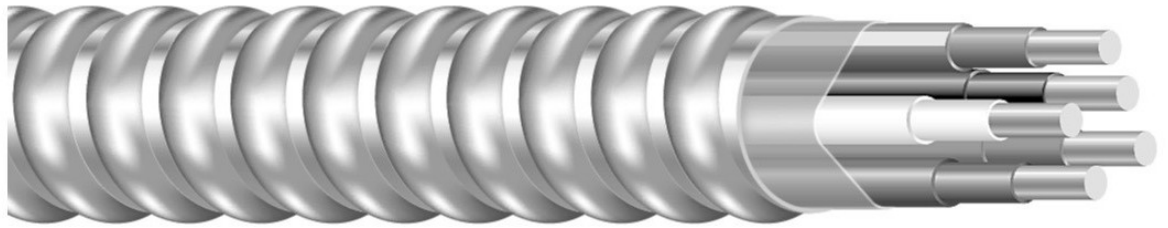


Armorlite® Type MC Isolated Ground

Lightweight Aluminum Interlocked Armor. 600 Volts.
Copper Power Conductors. THHN/THWN Insulated Singles.
Two Insulated Grounding Conductors.
Sizes 12 AWG and 10 AWG. Rated VW-1.



APPLICATIONS

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

- Applications requiring redundant, dedicated or isolated grounding paths.
- Branch, feeder and service power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Power, lighting, control, and signal circuits.
- For sensitive electronic equipment.
- 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 Cables - Isolated Ground meet or exceed the following requirements

- UL 83
- UL 1569
- UL 1685
- Federal Specification A-A59544 (formerly J-C-30B)
- The National Electrical Code
- 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

CONSTRUCTION

Southwire Armorlite® Type MC Cable - Isolated Ground is constructed with soft-drawn copper, Type THHN/THWN conductors rated 90°C dry available in sizes 12 AWG and 10 AWG, and two insulated grounding conductors--one solid green and the second green with yellow stripes. 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 standard PVC Jacket will not meet "Limited Smoke" or "LS" Rating. An optional SOLONON Jacket can be provided for "LS" Rating.



Southwire
One Southwire Drive
Carrollton, Ga. 30119 USA

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Armorlite Type MC - Isolated Ground

Circuit Conductor Size (AWG)/# of Cond.	Solid or Stranded	Grounding Conductor Size (AWG)/# of Cond.	Approx. Weight (lbs./1000)	Approx Armor O.D. (Inches)	Coil Length (feet)	Reel Length (feet)	Ampacity‡
12/2	solid	12/2	131	0.505	250	1000	20
12/3	solid	12/2	157	0.539	250	1000	20
12/4	solid	12/2	186	0.574	250	1000	20
10/2	solid	10/2	193	0.580	250	1000	30
10/3	solid	10/2	233	0.623	250	1000	30
10/4	solid	10/2	276	0.668	250	1000	30
12/2	stranded	12/2	137	0.527	250	1000	20
12/3	stranded	12/2	165	0.564	250	1000	20
12/4	stranded	12/2	194	0.602	250	1000	20
10/2	stranded	10/2	201	0.607	250	1000	30
10/3	stranded	10/2	243	0.653	250	1000	30
10/4	stranded	10/2	288	0.701	250	1000	30

Note: Ampacities are based on Table 310.16 of the NEC, 2011 Edition.

‡Allowable ampacities shown are for general use as specified by the National Electrical Code, 2011 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.

FEATURES

- An additional grounding conductor for isolated or redundant grounding.
- 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.
- Available in full line of product sizes and constructions.
- Anti-short bushings are not required for use with MC cable per the NEC and UL

NUMBER OF CONDUCTORS	COLOR SEQUENCE 120/208Y
2	black, white 
3	black, white, red 
4	black, white, red, blue 
Grounding Conductor	green 
Isolated Grounding Cond	green with yellow stripe 



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Armorlite Type MC - Isolated Ground

ONLINE CERTIFICATIONS & TOOLS

- [UL Online Certification Directory \(www.ul.com \)](http://www.ul.com)
- [UL Online Product Guide Info - Metal-Clad Cable \(PJAZ\) \(www.ul.com \)](http://www.ul.com)



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