

# Armorlite® Type MC

Copper Power Feeder Conductors. Lightweight Aluminum Interlocked Armor.  
600 Volts. THHN/THWN-2 Insulated Singles .  
Bare Copper Grounding Conductor.  
Sizes 1 AWG through 750 kcmil.



## APPLICATIONS

Southwire Armorlite® is suitable for use as follows:

- 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.
- 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 following requirements

- UL 83
- UL 1569
- UL 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
- National Electrical Code
- Listed for use in UL 1, 2, and 3 Hour Through-Penetration Fire Stop Systems

## CONSTRUCTION

Southwire Armorlite® Type MC Cable is constructed with soft-drawn copper, Type THHN/THWN-2 conductors rated 90°C dry, and a bare copper grounding conductor for sizes 1/0 AWG and larger. 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. Standard PVC Jacket will not meet "Limited Smoke or LS Rating". Optional SOLONON Jacket can be provided for "LS" Rating

# Armorlite Type MC - Copper Conductors

Conductor Size/# of Cond. (AWG/kcmil)	Grounding Conductor (AWG) †	Approximate Diameter Over Armor (inches)	Weight (lbs./1000ft.)	Ampacity (Amps)‡		Connector (Model #)***
				75°C	90°C	
1/3	6 Green Insulated	1.203	1137	130	150	125-125
1/4	6 Green Insulated	1.351	1456	130	150	139-125
1/0-3	6 bare	1.245	1344	150	170	132-125
1/0-4	6 bare	1.362	1733	150	170	139-125
2/0-3	6 bare	1.339	1630	175	195	139-125
2/0-4	6 bare	1.491	2180	175	195	157-150
3/0-3	4 bare	1.449	2037	200	225	148-150
3/0-4	4 bare	1.614	2709	200	225	166-150
4/0-3	4 bare	1.570	2555	230	260	166-150
4/0-4	4 bare	1.749	3307	230	260	184-200
250-3	4 bare	1.737	2980	255	290	175-200
250-4	4 bare	1.913	3868	255	290	193-200
350-3	3 bare	1.960	4029	310	350	202-200
350-4	3 bare	2.162	5247	310	350	224-250 F
500-3	2 bare	2.238	5576	380	430	235-250 F
500-4	2 bare	2.477	7289	380	430	257-250 F
600-4	2 bare	2.483	8237	420	475	257-250F
750-3	1 bare	2.674	8158	475	535	285-300 F
750-4	1 bare	2.960	10,692	475	535	313-300 F

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.**

†Available with oversized grounding conductor when used for parallel feeds on special orders.

\*\*\*Recommended Connectors may require upsizing to accommodate armor looseness after cutting.

## FEATURES

- 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



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## COLOR CODING Standard Products

Phase Conductors are Black with Printed I.D.	
No. of Conductors	Color Sequence 120/208Y
3	1-Black, 2-Red, White
4	1-Black, 2-Red, 3-Blue, White
Grounding Conductor	Bare

Color sequence for 277V/480Y High Voltage Color systems and other special colors are available subject to economic order quantity.

## 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) )