

# Duraclad Type MC - Lightweight Steel Armor

Conductor Size (AWG)	Solid or Stranded*	Grounding Conductor Size (AWG)	Overall Diameter (inches)	Weight (lbs./1000ft.)	Ampacity (Amps)‡			Standard Package	
					60°C	75°C	90°C	Coil (feet)	Reel (feet)
14/2	Solid	14	0.447	115	15	15	15	250	1000
14/3	Solid	14	0.472	134	15	15	15	250	1000
14/4	Solid	14	0.502	154	15	15	15	250	1000
12/2	Solid	12	0.475	142	20	20	20	250	1000
12/3	Solid	12	0.513	172	20	20	20	250	1000
12/4	Solid	12	0.547	201	20	20	20	250	750
10/2	Solid	10	0.550	197	30	30	30	250	750
10/3	Solid	10	0.588	240	30	30	30	250	500
10/4	Solid	10	0.631	284	30	30	30	250	500

Note: Ampacities are based on Table 310.16 of the NEC, 2005 Edition.

‡Allowable ampacities shown are for general use as specified by the National Electrical Code, 2005 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.**

\*Circuit sizes 12 AWG and 10 AWG also available as stranded conductors.

## 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

## 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



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# Duraclad® Type MC

Lightweight Steel Interlocked Armor. 600 Volts.  
Copper Power Conductors. THHN/THWN Insulated Singles.  
Green Insulated Grounding Conductor.  
Sizes 14 AWG through 10 AWG. Rated VW-1.



## APPLICATIONS

Southwire Duraclad® 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 Duraclad® Type MC Cable meets or exceeds the requirements of UL Standard 83, UL Standard 1569, UL Standard 1685 for Type MC, 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 Duraclad® Type MC Cable - Standard PVC Jacket will not meet "Limited Smoke or LS Rating". Optional SOLONON Jacket can be provided for "LS" Rating. Southwire Duraclad® Type MC Cable is listed for use in UL 1, 2, and 3 Hour Through-Penetration Firestop Systems.

## CONSTRUCTION

Southwire Duraclad 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 10 AWG, and a green insulated grounding conductor. The conductors are cabled together and a binder tape bearing the print legend is wrapped the assembly. Light weight galvanized steel interlocked armor is applied over the assembly.

# Duraclad Type MC - Lightweight Steel Armor

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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 and sizes 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) )