

# SOUTHWIRE METAL CLAD CABLE

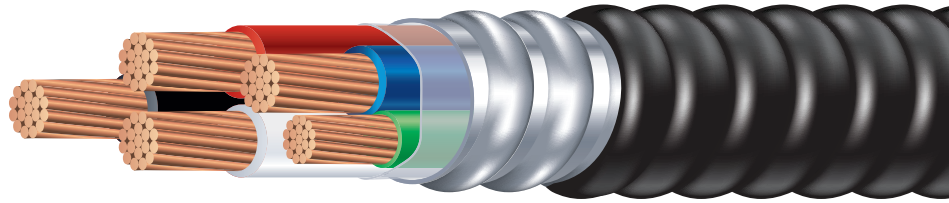
WRITTEN BY YUHSIN HAWIG, VP OF APPLICATIONS ENGINEERING;  
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Southwire Armorlite® cable, Duraclad® cable, and Alumaflex® Metal Clad (MC) cables are a cost-effective alternative to traditional wire and pipe. These cables are manufactured with insulated wires, type THHN or XHHW-2, enclosed in an aluminum interlocked armor with or without an outer PVC jacket.

There are many designs suitable for various applications such as: Metal Clad Multi-circuit, Neutral-per-phase, Power with Control, and Signal MC-PCS™ Cable, Riser MC™ Cable, Isolated Ground, Metal Clad All-purpose (MC<sup>AP</sup>® Cable), Health Care Facilities (HCF MC<sup>AP</sup>® Cable), Fire Alarm (Red Alert® Cable), MC-HL, etc.

## INTERLOCKED ARMOR OPTIONS

Interlocked Armor is a flat metal strip of aluminum or steel, preformed into an “S” shape, helically wrapped around a cable core so that the formed edges lock together.
















### Interlocked Armor Designations

AIA – Aluminum Interlocked Armor

GSIA – Galvanized Steel Interlocked Armor

## CABLE FEATURES & COMPLIANCES

	Maximum Voltage Rating	600 Volts for THHN 600 Volts for XHHW-2		REACH
	Temperature Rating	90°C for XHHW-2 and THHN		RoHS
	Dry or Wet Rated	Dry at 90°C THHN and XHHW-2 Wet 90°C for 8 AWG and larger THWN-2 and all XHHW-2 sizes Wet at 75°C for THWN		Made in USA
	Weather or Sunlight Resistant	Jacket – Yes No Jacket - No		NEC NFPA 70
	Underground or Direct Burial	Jacket – Yes No Jacket - No		UL 83 or UL 44 UL 1569 Metal clad cables UL 1479 Fire tests of through-penetration firestops
	Flame Rating	Yes FT4/IEEE1202 both jacketed and unjacketed		ASTM B3, B8, B800, B836
	Oil or Gasoline Resistant	No Only for Industrial Applications		

## METAL CLAD CABLE

### National Electrical Code® (NEC Article 330: MC Cables)

A factory assembly of one or more insulated circuit conductors with or without optical fiber members enclosed in an armor of interlocking metal tape, or a smooth or corrugated metallic sheath.

### UL 1569 Metal-Clad Cables

Requirements to cover round or flat metal-clad cables that contain 18 AWG – 2000 kcmil insulated circuit conductors with or without one or more optical-fiber members, all enclosed in armor consisting of interlocked metal strip or a smooth or corrugated metal tube.



# Southwire® **SOUTHWIRE METAL CLAD CABLE**

## INDUSTRY COLOR CODE

**Black**  
LINE 1

**Red**  
LINE 2

**Blue**  
LINE 3

**White**  
Neutral "N"

**Bare / Green / Green with yellow stripes**  
Ground / Earth

**"NEC"**  
**(120, 208, and 240V)**



**Brown**  
LINE 1

**Orange**  
LINE 2

**Yellow**  
LINE 3

**Gray**  
Neutral "N"

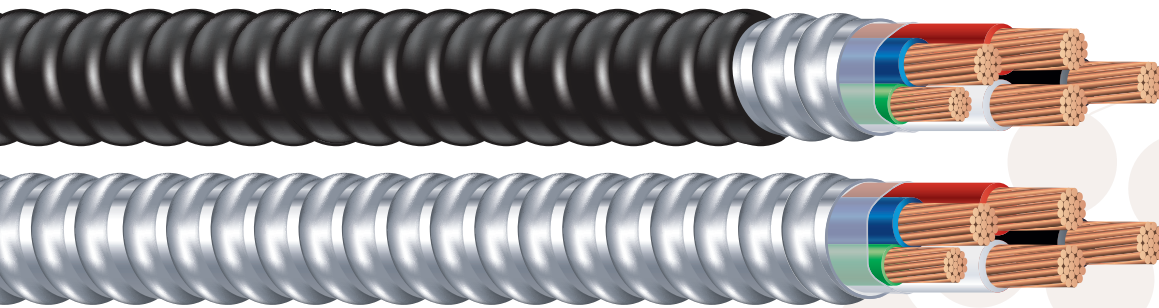
**Bare / Green / Green with yellow stripes**  
Ground / Earth

**"NEC"**  
**(277 and 480V)**



\*Other color codes available; subject to minimum order quantity.

## SOUTHWIRE METAL CLAD CABLE PERMITTED USES AND APPLICATIONS



### JACKETED

Outdoor Applications or Wet Locations

### NON-JACKETED

Indoor Applications or Dry Locations

## APPLICATIONS

- In branch, feeder, and service power distribution in commercial, industrial, institutional, and multi-family residential buildings
- Concealed or exposed installations
- Environmental air-handling spaces (without PVC jacket)
- Dry locations and embedded in plaster finish on brick or other masonry
- Direct burial (requires an overall PVC jacket)
- Exposed to corrosive acids or alkalis (requires an overall PVC jacket)
- Embedded in concrete (requires an overall PVC jacket)

For more information about uses and applications, please review NEC article 330.

## TO LEARN MORE, PLEASE CONTACT:

### US & Canada Customers

CableTechSupport@southwire.com

### International Customers

IWCableTechSupport@southwire.com

- In cable tray where identified for such use as "FOR CT USE"
- In any raceway
- In hazardous locations where permitted in the NEC articles 501, 502, and 503
- In wet locations where a jacket is provided over the metallic armor and the insulated conductors are listed for use in wet locations.



**WE'VE GOT IT  
MADE IN AMERICA™**

Compliant with Buy American Requirements, found in 49 U.S.C. § 5323(j). "Made in the USA Only!" when ordering to ensure your project receives American made MC products.

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