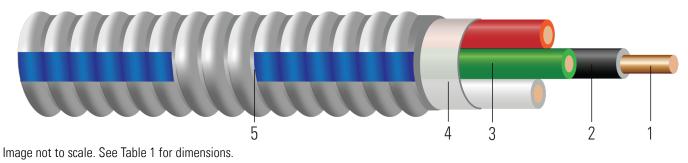


# Duraclad® Type MC THHN/THWN Circuit Size Copper Conductor 120/208V Colors Dashed-Blue Armor

Copper THHN/THWN Insulated Singles. Green Insulated Copper Grounding Conductor. UL Listed 600 Volts. Rated VW-1. Lightweight Steel Dashed-Blue Interlocked Armor.



#### **CONSTRUCTION:**

- 1. Conductor: Solid or 19 strands class C compressed copper per ASTM B3 and ASTM B8
- 2. Insulation: All phases are insulated with Polyvinyl Chloride with Nylon Sheath Type THHN/THWN
- 3. Ground: Green insulated ground. Polyvinyl Chloride with Nylon Sheath Type THHN/THWN
- 4. Binder: Mylar tape
- 5. Armor: Lightweight Steel Dashed-Blue Interlocked Armor

# **APPLICATIONS AND FEATURES:**

# 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.
- 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.
- Binder tape with print legend wrapped around assembly.
- Type THHN/THWN rated 90°C Dry.

### Southwire Armorlite® Type MC Cable - meets or exceeds the following requirements:

- UL Online Product Guide Info Metal-Clad Cable (PJAZ) ( www.ul.com )
- Federal Specification A-A59544 (formerly J-C-30B)
- NFPA 70 (National Electrical Code), Article 330
- Listed for use in UL 1, 2 and 3 Hour Through Penetration Firestop Systems

### SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 83 Thermoplastic Insulated Wires and Cables
- UL 1569 Metal-Clad Cables



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- UL 1479 Standard for Safety Fire Tests of Penetration Firestops
- UL 1685 FT4 Vertical-Tray Fire Propagation and Smoke Release Test
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test
- Buy American: Compliant with Buy American Requirements, found in 49 U.S.C. § 5323(j); specify "Made in the USA Only!" when ordering to ensure your project receives American made products.

#### **SAMPLE PRINT LEGEND:**

SOUTHWIRE E96627 {UL} TYPE MC XX AWG THHN OR THWN CDRS FOR USE IN CABLE TRAYS 600 VOLTS

#### Table 1 – Weights and Measurements

Stock Number	Cond. Size	Conductor Number	Color	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Ground Size	Diameter Over Armor	Copper Weight	Overall Weight	
	AWG/ Kcmil			inch		mils	No. x AWG	inch	lbs/1000ft	lbs/1000ft	
14 AWG   Solid											
643950◊	14	3	BK,RD,WE	0.064	Solid	20	1x14	0.474	50	142	
12 AWG   Solid											
571106◊	12	2	RD,WE	0.080	Solid	20	1x12	0.483	59	151	
571097◊	12	2	BK,WE	0.080	Solid	20	1x12	0.483	59	151	
5711110	12	3	BK,RD,WE	0.080	Solid	20	1x12	0.514	79	181	
571148◊	12	4	BK,RD,BE,WE	0.080	Solid	20	1x12	0.549	99	213	
10 AWG   Solid											
571150◊	10	2	BK,WE	0.101	Solid	25	1x10	0.550	92	204	
588905◊	10	2	BK,BE	0.101	Solid	25	1x10	0.550	92	204	
571153◊	10	2	RD,WE	0.101	Solid	25	1x10	0.550	92	204	
571155◊	10	3	BK,RD,WE	0.101	Solid	25	1x10	0.589	123	251	
571159◊	10	3	BK,BE,WE	0.101	Solid	25	1x10	0.589	123	251	
571160◊	10	4	BK,RD,BE,WE	0.101	Solid	25	1x10	0.633	154	296	
12 AWG   19 Strands											
574470◊	12	2	BK,WE	0.090	19	20	1x12	0.504	60	158	
10 AWG   19 Strands											
640694◊	10	4	BK,RD,BE,WE	0.117	19	25	1x10	0.674	161	321	

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

Note: Conductor number = number of phase conductors plus neutral. Does not include green ground.

TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.



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#### Table 2 – Electrical and Engineering Data

		•	•							
Cond. Size	Conductor Number	Min. Bend Radius	DC Resistance at 25°C	AC Resistance at 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity Raceway 75°C	Allowable Ampacity Raceway 90°C			
AWG/ Kcmil		Inches	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp			
14 AWG   Solid										
14	3	3.3	2.631	3.170	0.058	20	25			
12 AWG   Solid										
12	2	3.4	1.662	2.002	0.054	25	30			
12	2	3.4	1.662	2.002	0.054	25	30			
12	3	3.6	1.662	2.002	0.054	25	30			
12	4	3.8	1.662	2.002	0.054	20	24			
10 AWG   Solid										
10	2	3.9	1.040	1.253	0.050	35	40			
10	2	3.9	1.040	1.253	0.050	35	40			
10	2	3.9	1.040	1.253	0.050	35	40			
10	3	4.1	1.040	1.253	0.050	35	40			
10	3	4.1	1.040	1.253	0.050	35	40			
10	4	4.4	1.040	1.253	0.050	28	32			
12 AWG   19 Strands										
12	2	3.5	1.662	2.002	0.054	25	30			
10 AWG   19 Strands										
10	4	4.7	1.040	1.253	0.050	28	32			

\* Ampacities based upon 2023 NEC Table 310.16 and do not take into account the overcurrent protection limitations in NEC 240.4(D) of 15 Amps for 14 AWG CU, 20 Amps for 12 AWG CU, and 30 Amps for 10 AWG CU (independent of the conductor temperature rating and stranding if size is present in table). Also, see NEC sections 310.15 and 110.14(C) for additional requirements.

\* Ampacities have been adjusted for more than Three Current-Carrying Conductors.



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