Armorlite® Type MC THHN/THWN Circuit Size Copper Conductor Multi Circuits

Copper THHN/THWN Insulated Singles. Multiple Circuits Green Insulated Copper Grounding Conductor. UL Listed 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor.

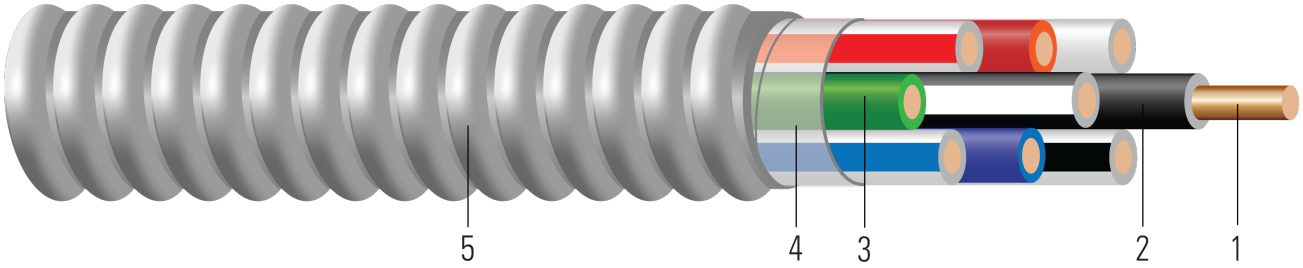


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Solid copper per ASTM B3 or 19-strand class C compressed copper and ASTM B3 and B8
2. **Insulation:** Polyvinyl Chloride with Nylon Sheath Type THHN/THWN
3. **Ground:** Green Polyvinyl Chloride with Nylon Sheath Type THHN/THWN insulated ground conductor
4. **Binder:** Mylar tape
5. **Armor:** Aluminum Interlocked Armor

APPLICATIONS AND FEATURES:

Southwire Armorlite® Type MC Multi-Circuit Cable is suitable for use as follow:

- Multiple circuits for 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
- Unjacketed Type MC cables are rated for dry, indoor locations only per NEC 330.10(A)(10)
- Type THHN/THWN rated 90ºC dry

Southwire Armorlite® Type MC Multi-Circuit 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

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- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 83 Thermoplastic Insulated Wires and Cables
- UL 1569 Metal-Clad Cables
- 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:

E96627 {UL} TYPE MC XX AWG THHN OR THWN CDRS WITH X X XX AWG NEUTRAL 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	Num x Neutral Size	Diameter Over Armor	Copper Weight	Overall Weight
	AWG/ Kcmil			inch		mils	No. x AWG	No. x AWG	inch	lbs/1000ft	lbs/1000ft
10 AWG | SOLID Strands											
552986	10	12	SEE TABLE	0.102	SOLID	20	1x10	3x10	0.947	402	591

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
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.

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
10 AWG | SOLID Strands							
10	12	6.7	1.04	1.291	0.05	18	20

***** 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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Color Table - (/ means stripe RD/WE is Red with White Stripe)

Size (Strand)	Cond. Num	Stock Code	Color
12 (Solid)	5	555951	BK, RD, BE, WE, WE/BK, GN
12 (Solid)	6	690057	BK, BK/WE, WE, WE/BK, RD, RD/WE, GN
12 (Solid)	6	589122	BK, RD, BE, BK/WE, RD/WE, BE/WE, WE, WE/BK, WE/RD, WE/BE, GN
12 (Solid)	6	563324	BK, BK/WE, RD, RD/WE, BE, WE, GN
12 (Solid)	8	690065	BK, BK/WE, WE, WE/BK, RD, RD/WE, BE, BE/WE, GN
12 (Solid)	8	596437	BK, RD, BE, BK/WE, RD/WE, BE/WE, RD/BK, BK/RD, GN
12 (Solid)	9	586407	OE, GY/OE, BK, WE/BK, RD, WE/RD, BE, BK/WE, GN, WE
12 (Solid)	12	690073	BK, BK/WE, BK/RD, RD, RD/WE, RD/BK, BE, BE/WE, BE/RD, WE, WE/BK, WE/RD, GN
12 (Solid)	16	679370	BK, RD, BK/RD, RD/BK, BE/RD, BK 1, BK 2, BK/WE, RD/WE, BE/WE, WE/BK, WE/BE, WE/RD, WE, WE 1, WE 2, GN
12 (19)	4	551353	BK, BK/WE, WE, WE/BK, RD, GN, RD/WE
10 (Solid)	6	552970	BK, RD, BK/WE, RD/WE, WE, WE/BK, GN
10 (Solid)	6	690081	BK, BK/WE, WE, WE/BK, RD, RD/WE, BE, BE/WE, GN
10 (Solid)	6	587714	BK, RD, BE, OE, PK, PE, GN
10 (Solid)	10	598031	BK, RD, BE, BK/WE, RD/WE, BE/WE, WE, WE/BK, WE/RD, WE/BE, GN
10 (Solid)	12	552986	BK, BK/WE, BK/RD, WE, WE/BK, WE/RD, RD, RD/WE, RD/BE, BE, BE/WE, BE/RD, GN
10 (Solid)	16	679161	BK, WE, RD, WE/RD, BE, WE/BE, BK/WE, WE/BK, RD/YW, WE/YW, BE/OE, WE/OE, PE, PE/WE, PK, PK/WE, GN
10 (19)	4	674737	BK, BK/WE, RD, RD/WE, WE, WE/BK, GN
10 (19)	5	640523	BK, RD, BE, OE, YW, WE/BK, WE/RD, WE/OE, WE/YW, GN
10 (19)	8	551356	BK, BK/WE, WE, WE/BK, RD, RD/WE, BE, GN, BE/WE
8 (19)	8	583642	BK, BK/WE, RD, RD/WE, BE, WE, WE/BK, WE/RD, GN

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