Stock #: 551356 SPEC 60208

Armorlite® Type MC THHN/THWN Circuit Size Copper Conductor Neutral Per Phase

Copper THHN/THWN Insulated Singles. Dedicated Neutral Conductor for Each Phase Conductor. Green Insulated Copper Grounding Conductor. UL Listed 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor.

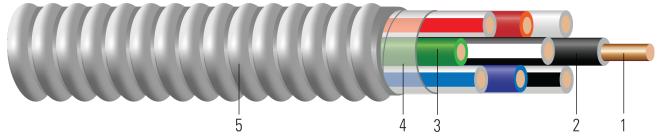


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- 1. Conductor: Solid 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:** Aluminum Interlocked Armor

Contact Southwire SPEED™ Services to request a quote.

APPLICATIONS AND FEATURES:

Southwire Armorlite® Type MC Cable Neutral-per-phase products comply with NEC 200.4 requirements (added in the 2011 NEC) for the installation and marking of neutral conductors. Neutrals are not to be used for more than one circuit (branch, multiwire branch, or ungrounded feeder). See NEC 200.4 for complete requirements.

Southwire Armorlite® Type MC Cable - Neutral per phase is suitable for use as follow:

- Applications affected by harmonics generated from non-linear switching loads, such as computers, variable frequency drives, electrical test equipment, and office equipment.
- 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.
- Type THHN/THWN rated 90°C Dry.

Southwire Armorlite® Type MC Cable -Neutral per phase 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)







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- 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
- 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 FOR USE IN CABLE TRAYS 600 VOLTS

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Conductor Number	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
551356◊	10	8	0.117	19	25	1x10	2x10	0.878	291	457

All dimensions are nominal and subject to normal manufacturing tolerances

Note: Conductor number = number of phase conductors. Does not include neutrals and green ground.

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 60°C	Allowable Ampacity Raceway 75°C	Allowable Ampacity Raceway 90°C
AWG/ Kcmil		Inches	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp	Amp
10	8	6.1	1.040	1.253	0.050	21	24	28

^{*} 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.







[♦] Cable marked with this symbol is a standard stock item

^{*} Ampacities have been adjusted for more than Three Current-Carrying Conductors.

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Color Table

Stock Num.	Cond. Size	Cond. Num.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
674349	14	2																	
554994	12	2																	
551322	12	2																	
552795	12	4																	
554991	12	2																	
566801	12	2																	
610666	12	2																	
551324	12	3																	
551353	12	4																	
554990	12	3																	
562687	12	3																	
610669	12	3																	
566811	12	4																	
643570	12	4																	
589122	12	6																	
580850	12	6									2X	2X							
643654	12	6																	
674313	12	7									2X	2X	2X						
679370	12	10	ЗХ		3X														
641211	12	9	ЗХ	3X	3X	9X													
552996	10	2																	
563822	10	2																	
567063	10	2																	
586636	10	2																	
641220	10	2																	
551336	10	3																	
553238	10	3																	
556259	10	3																	
562456	10	3																	
592678	10	3																	
610673	10	3																	
674737	10	4																	







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Stock Num.	Cond. Size	Cond. Num.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
551356	10	8																	
554852	10	4																	
566698	10	4																	
640523	10	5																	
585848	10	5																	
590115	10	5	2X	2X			2X	2X											
598031	10	6																	
677655	10	5																	
647488	10	6	6X	6X															
679158	10	7																	
647335	10	8	8X	8X															
679161	10	16																	





