Armorlite® Type MC THHN/THWN Circuit Size Copper Conductor PVC Jacketed 277/480V Colors. Silicone Free

Copper THHN/THWN Insulated Singles. Green Insulated Copper Grounding Conductor. UL Listed. 600 Volts Rated VW-1. Lightweight Aluminum Interlocked Armor. PVC Jacketed, Sunlight Resistant.

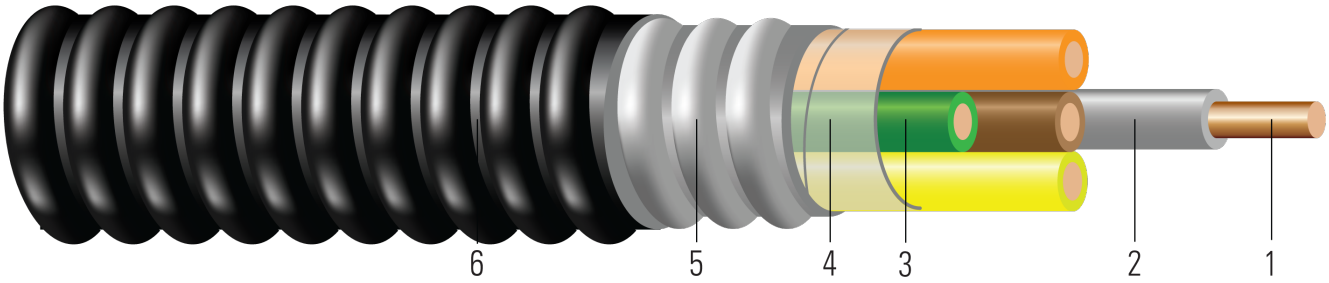


Image not to scale. See Table 1 for dimensions.

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
6. **Jacket:** Polyvinyl Chloride (PVC) Jacket, sunlight resistant, corrosion resistant.

APPLICATIONS AND FEATURES:

Southwire Armorlite® Type MC Cable is suitable for use as follows:

- Branch and service power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Where exposed to cinder fills, strong chlorides, caustic alkalis, or vapors of chlorine or of hydrochloric acids.
- Fished or embedded in plaster.
- Concealed or exposed installations.
- Suitable for Wet Location per NEC 330.10(A)(11)
- Places of Assembly per NEC 518.4 and theaters per NEC 520.5.
- Installation in cable tray and approved raceways, or as aerial cable on a messenger.
- Under raised floors for information technology equipment conductors and cables per NEC Article 645
- Class I Div. 2, Class II Div 2, & Class III Div. 1 Hazardous Locations.
- Type THHN/THWN rated 90ºC Dry/ 75ºC Wet
- Anti-Short busing not required

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

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- 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
- RoHS-2 (European Directive 2011/65/EU)
- 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.
- VW-1 (Vertical-Wire) Flame Test

SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE {UL} E96627 X/C X AWG CU THHN OR THWN CDRS 600 VOLTS GG 1 X X AWG CU TYPE MC EZ-JKT FOR CT USE SUN. RES. 90C

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Conductor Number	Color	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Ground Size	Diameter Over Armor	Jacket Thickness	Approx. OD	Copper Weight	Overall Weight
	AWG/ Kcmil			inch		mils	No. x AWG	inch	mil	inch	lbs/ 1000ft	lbs/ 1000ft
14 AWG | SOLID Strands												
596466	14	3	BN,OE,GY,GN	0.064	SOLID	15	1x14	0.478	50	0.584	50	165
12 AWG | SOLID Strands												
552561	12	2	BN,GY	0.081	SOLID	15	1x12	0.484	50	0.59	60	174
553377	12	2	OE,GY	0.081	SOLID	15	1x12	0.484	50	0.59	60	174
553378	12	2	YW,GY	0.081	SOLID	15	1x12	0.484	50	0.59	60	174
553379	12	3	BN,YW,GY	0.081	SOLID	15	1x12	0.515	50	0.621	80	205
552563	12	3	BN,OE,GY	0.081	SOLID	15	1x12	0.515	50	0.621	80	205
552564	12	4	BN,OE,YW,GY	0.081	SOLID	15	1x12	0.55	50	0.656	100	237
12 AWG | 19 Strands												
585601	12	2	YW,WE,GN	0.089	19	15	1x12	0.505	50	0.611	60	182
562489	12	2	OE,GY,GN	0.089	19	15	1x12	0.505	50	0.611	60	182
555671	12	4	BN,OE,YW,GY	0.09	19	15	1x12	0.581	50	0.687	100	251
10 AWG | SOLID Strands												
553373	10	2	OE,GY	0.102	SOLID	20	1x10	0.551	50	0.657	93	229
553668	10	2	YW,GY,GN	0.102	SOLID	20	1x10	0.551	50	0.657	93	229
553976	10	2	BN,GY	0.102	SOLID	20	1x10	0.551	50	0.657	93	229
559827	10	3	BN,OE,YW,GN	0.102	SOLID	20	1x10	0.59	50	0.696	124	276
553375	10	3	BN,YW,GY	0.102	SOLID	20	1x10	0.59	50	0.696	124	258
552954	10	3	BN,OE,GY	0.102	SOLID	20	1x10	0.59	50	0.696	124	276
553381	10	4	BN,OE,YW,GY	0.102	SOLID	20	1x10	0.634	50	0.74	155	322
10 AWG | 19 Strands												
553372	10	2	BN,GY,GN	0.113	19	20	1x10	0.583	50	0.689	97	246
640686	10	3	BN,OE,YW,GN	0.113	19	20	1x10	0.626	50	0.732	129	295
585606	10	2	OE,GY	0.117	19	20	1x10	0.583	50	0.689	97	246
585609	10	2	YW,GY	0.117	19	20	1x10	0.583	50	0.689	97	246

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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.

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 Strands							
14	3	4.1	2.631	3.265	0.058	20	25
12 AWG | SOLID Strands							
12	2	4.1	1.662	2.063	0.054	25	30
12	2	4.1	1.662	2.063	0.054	25	30
12	2	4.1	1.662	2.063	0.054	25	30
12	3	4.3	1.662	2.063	0.054	25	30
12	3	4.3	1.662	2.063	0.054	25	30
12	4	4.6	1.662	2.063	0.054	20	24
12 AWG | 19 Strands							
12	2	4.3	1.662	2.063	0.054	25	30
12	2	4.3	1.662	2.063	0.054	25	30
12	4	4.8	1.662	2.063	0.054	20	24
10 AWG | SOLID Strands							
10	2	4.6	1.04	1.291	0.05	35	40
10	2	4.6	1.04	1.291	0.05	35	40
10	2	4.6	1.04	1.291	0.05	35	40
10	3	4.9	1.04	1.291	0.05	35	40
10	3	4.9	1.04	1.291	0.05	35	40
10	3	4.9	1.04	1.291	0.05	35	40
10	4	5.2	1.04	1.291	0.05	28	32
10 AWG | 19 Strands							
10	2	4.8	1.04	1.291	0.05	35	40
10	3	5.1	1.04	1.291	0.05	35	40
10	2	4.8	1.04	1.291	0.05	35	40
10	2	4.8	1.04	1.291	0.05	35	40

***** 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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