

Armorlite® Type MC THHN/THWN Intermediate 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 and Direct Burial

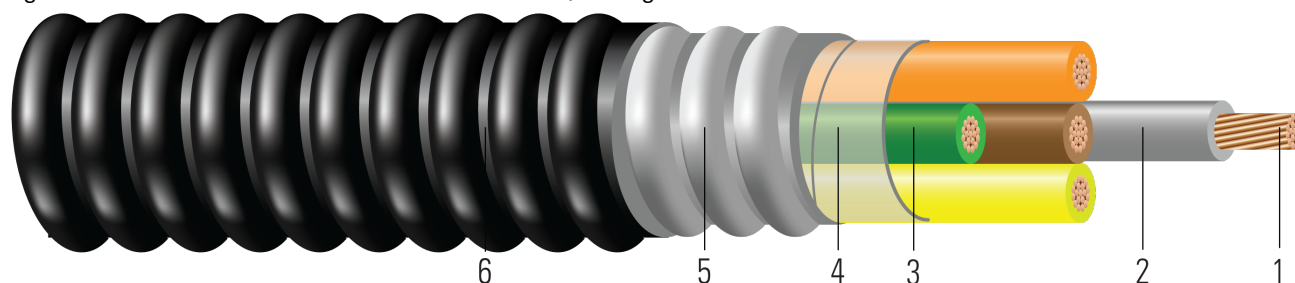


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** 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

APPLICATIONS AND FEATURES:

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

- Branch, feeder and service power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Direct burial applications, embedded in concrete, and 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(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 90°C Dry/ 75°C Wet

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 Standard Specification for Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors



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Southwire

**CABLETECH
SUPPORT™**

Services

- 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
- REACH/RoHS-2 (Chemical Limit) Compliant
- 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 MASTER-DESIGN {UL} E96627 X/C XX AWG CU THHN OR THWN CDRS 600 VOLTS GG 1 X X AWG CU TYPE MC EZ-JKT FOR CT USE SUN. RES. DIRECT BURIAL 90{D}C

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Conductor Number	Color	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Ground Size x Num	Diameter Over Armor	Jacket Thickness ¹	Approx. OD	Overall Weight
	AWG/ Kcmil			inch		mils	No. x AWG	inch	mil	inch	lbs/1000ft
610073◇	8	2	BK/WE	0.143	19	35	1 x 10	0.645	50	0.745	300
610103◇	8	3	BK/RD/ WE	0.143	19	35	1 x 10	0.739	50	0.839	384
610094◇	8	4	BK/RD/ BE/WE	0.143	19	35	1 x 10	0.793	50	0.893	458
610081◇	6	2	BK/WE	0.179	19	35	1 x 8	0.753	50	0.853	413
610084◇	6	3	BK/RD/ WE	0.179	19	35	1 x 8	0.817	50	0.917	523
610099◇	6	4	BK/RD/ BE/WE	0.179	19	35	1 x 8	0.888	50	0.988	634
610108◇	4	3	BK/RD/ WE	0.226	19	50	1 x 8	0.985	50	1.091	744
554285◇	3	3	BK/RD/ WE	0.254	19	50	1 x 6	1.053	50	1.163	900
610112◇	2	3	BK/RD/ WE	0.286	19	50	1 x 6	1.130	50	1.236	1047
555638◇	2	4	BK/RD/ BE/WE	0.286	19	50	1 x 6	1.233	50	1.339	1336

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.



Table 2 – Electrical and Engineering Data

Stock Number	Cond. Size	Min. Bend Radius	Max Pull Tension	DC Resistance at 25°C	AC Resistance at 75°C	Allowable Ampacity Raceway 60°C [†]	Allowable Ampacity Raceway 75°C [†]	Allowable Ampacity Raceway 90°C [†]
	AWG/Kcmil	Inches	Lbs	Ω/1000ft	Ω/1000ft	Amp	Amp	Amp
610073◇	8	5.2	264	0.653	0.786	40	50	55
610103◇	8	5.8	396	0.653	0.786	40	50	55
610094◇	8	6.2	528	0.653	0.786	32	40	44
610081◇	6	5.9	419	0.411	0.495	55	65	75
610084◇	6	6.4	629	0.411	0.495	55	65	75
610099◇	6	6.9	839	0.411	0.495	44	52	60
610108◇	4	7.6	1001	0.258	0.31	70	85	95
554285◇	3	8.1	1262	0.205	0.246	85	100	115
610112◇	2	8.6	1592	0.162	0.195	95	115	130
555638◇	2	9.3	2123	0.162	0.195	76	92	104

[†] Ampacities have been adjusted for more than Three Current-Carrying Conductors

[†] 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). Also, see NEC sections 310.15 and 110.14(C) for additional requirements.

