Duraclad® Type MC THHN/THWN Circuit Size Copper Conductor 277/480V 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.

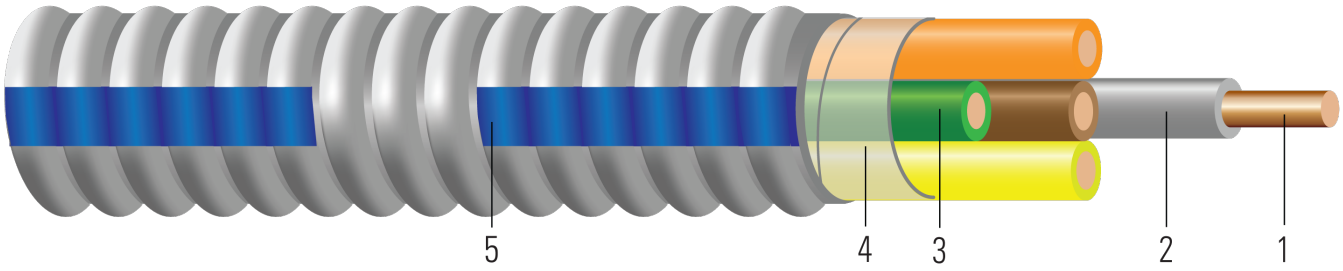

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Solid bare copper per ASTM B3
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 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 90ºC 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 Standard Specification for 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
- 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
- REACH - European Community Regulation

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	Conductor Stranding	Insulation Thickness	Ground Size	Diameter Over Armor	Overall Weight
	AWG/ Kcmil				mils	No. x AWG	inch	lbs/1000ft
571921◊	10	2	PE/GY	Solid	25	1 x 10	0.554	209
571151◊	10	2	BN/GY	Solid	25	1 x 10	0.554	209
571152◊	10	2	YEL/GY	Solid	25	1 x 10	0.554	209
571917◊	10	2	OE/GY	Solid	25	1 x 10	0.541	201
571108◊	12	2	PE/GY	Solid	20	1 x 12	0.487	152
571105◊	12	2	YEL/GY	Solid	20	1 x 12	0.487	152
571923◊	12	2	OE/GY	Solid	20	1 x 12	0.487	152
571098◊	12	2	BN/GY	Solid	20	1 x 12	0.487	152
592568◊	10	3	PK/PK/GY	Solid	25	1 x 10	0.579	245
592572◊	12	3	YEL/YW/GY	Solid	20	1 x 12	0.504	176
592571◊	12	3	BN/BN/GY	Solid	20	1 x 12	0.504	176
592570◊	12	3	PE/PE/GY	Solid	20	1 x 12	0.504	176
592338◊	12	3	OE/PE/GY	Solid	20	1 x 12	0.504	176
571119◊	12	3	YEL/PE/GY	Solid	20	1 x 12	0.518	184
571118◊	12	3	BN/PE/GY	Solid	20	1 x 12	0.518	184
592339◊	12	3	OE/YW/GY	Solid	20	1 x 12	0.504	176
571112◊	12	3	BN/OE/GY	Solid	20	1 x 12	0.518	184
571113◊	12	3	BN/YW/GY	Solid	20	1 x 12	0.518	184
571149◊	12	4	BN/YW/PE/ GY	Solid	20	1 x 12	0.553	217
571914◊	12	4	BN/OE/YW/ GY	Solid	20	1 x 12	0.553	217
571161◊	10	4	BN/YW/PU/ GY	Solid	25	1 x 10	0.637	299

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	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	Ω/1000ft	Ω/1000ft	Amp	Amp	Amp
571921◊	10	3.8	1.040	1.253	30	35	40
571151◊	10	3.8	1.040	1.253	30	35	40
571152◊	10	3.8	1.040	1.253	30	35	40
571917◊	10	3.7	1.040	1.253	30	35	40
571108◊	12	3.4	1.662	2.002	20	25	30
571105◊	12	3.4	1.662	2.002	20	25	30
571923◊	12	3.4	1.662	2.002	20	25	30
571098◊	12	3.4	1.662	2.002	20	25	30
592568◊	10	4.0	1.040	1.253	30	35	40
592572◊	12	3.5	1.662	2.002	20	25	30
592571◊	12	3.5	1.662	2.002	20	25	30
592570◊	12	3.5	1.662	2.002	20	25	30
592338◊	12	3.5	1.662	2.002	20	25	30
571119◊	12	3.6	1.662	2.002	20	25	30
571118◊	12	3.6	1.662	2.002	20	25	30
592339◊	12	3.5	1.662	2.002	20	25	30
571112◊	12	3.6	1.662	2.002	20	25	30
571113◊	12	3.6	1.662	2.002	20	25	30
571149◊	12	3.8	1.662	2.002	16	20	24
571914◊	12	3.8	1.662	2.002	16	20	24
571161◊	10	4.4	1.040	1.253	24	28	32

† 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.