

## Steel Armored Thermostat Type MC

18 AWG TFN/TEWN Insulated Singles. Green Insulated Ground. UL Listed. 600 Volts. Rated VV-1. Steel Interlocked Armor.

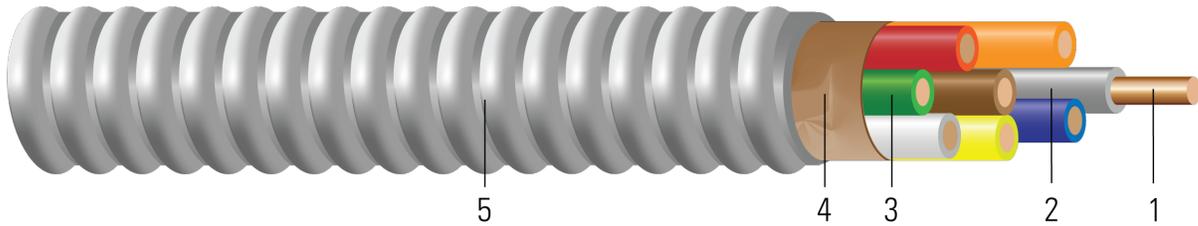


Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

1. **Conductor:** Solid soft drawn copper per ASTM B3
2. **Insulation:** All phases are insulated with Polyvinyl Chloride with Nylon Sheath Type TFFN
3. **Ground:** Green insulated ground. Polyvinyl Chloride with Nylon Sheath Type TFFN
4. **Binder:** Paper tape
5. **Armor:** Steel Interlocked Armor

### APPLICATIONS AND FEATURES:

**Southwire Steel Armored Thermostat Type MC Cable is suitable for use as follows:**

- Signal, control, 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 Article 645
- Class I Div. 2, Class II Div 2, & Class III Div. 1 Hazardous Locations.

**Southwire Type MC Cable - meets or exceeds the following requirements:**

- UL Online Product Guide Info - Metal-Clad Cable (PJAZ) ( [www.ul.com](http://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
- UL 66 Fixture Wire
- UL 1569 Metal-Clad Cables
- 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:**

E96627 {UL} TYPE MC AWG XXTHHN OR THWN CDRS FOR USE IN CABLE TRAYS 600 VOLTS

**Table 1 – Weights and Measurements**

Stock Number	Cond. Size AWG/ Kcmil	Conductor Number	Color	Diameter Over Conductor inch	Conductor Stranding	Insulation Thickness mils	Approx. OD inch	Copper Weight lbs/1000ft	Overall Weight lbs/1000ft
18 AWG   Solid									
553173◇	18	2	BK, WE	0.040	Solid	15	0.386	9	77
553174◇	18	3	BK, RD, WE	0.040	Solid	15	0.386	14	84
553170◇	18	4	BK, RD BE, WE	0.040	Solid	15	0.419	19	96
553171◇	18	5	BK, RD BE, WE, GN	0.040	Solid	15	0.442	24	109
553169◇	18	6	BK, RD BE, WE, YW, GN	0.040	Solid	15	0.442	29	116
554763◇	18	7	BK, RD BE, WE, YW, BN, OE, GN	0.040	Solid	15	0.466	39	135

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 AWG/ Kcmil	Conductor Number	Min. Bend Radius Inches	DC Resistance at 25°C Ω/1000ft	AC Resistance at 75°C Ω/1000ft	Inductive Reactance @ 60Hz Ω/1000ft	Allowable Ampacity Raceway 90°C Amp
18 AWG   Solid						
18	2	2.7	6.669	8.035	0.036	14
18	3	2.7	6.669	8.035	0.036	14
18	4	2.9	6.669	8.035	0.036	11
18	5	3.1	6.669	8.035	0.036	11
18	6	3.1	6.669	8.035	0.036	11
18	7	3.3	6.669	8.035	0.036	9

\* 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.

