SIMpull MC-AP™ QUIK2Ground™ Type MC All Purpose THHN/THWN Circuit Size Copper Conductor 120/208V Colors

Copper THHN Insulated Conductors. Full-Sized Aluminum Equipment Grounding/Bonding Conductor. UL Listed 600 Volt. Rated VW1. Lightweight Aluminum Interlocked Armor is Part of Equipment Bonding/Grounding Path. Lightweight Low Profile Aluminum Interlocked Armor.

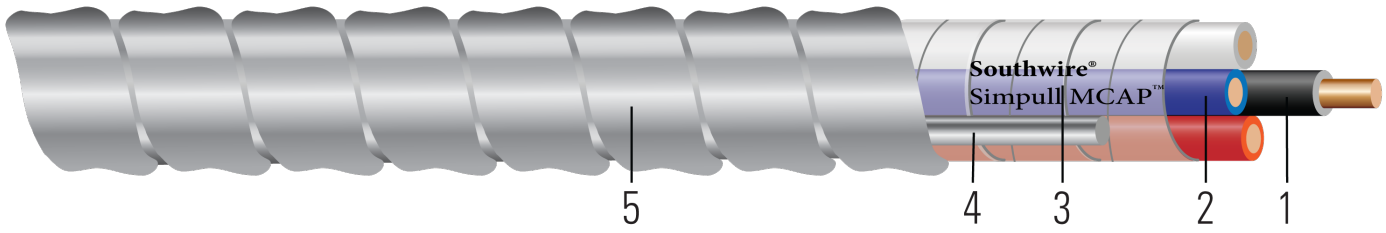


Image not to scale. See Table 1 for dimensions.

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. **Binder:** Mylar tape
4. **Ground:** Full-sized bare 8000 series aluminum grounding/bonding conductor. Armor and bare aluminum conductor form the equipment ground path.
5. **Armor:** Aluminum Interlocked Armor

APPLICATIONS AND FEATURES:

Southwire SIMpull MCAP™ All Purpose Type MC Cable is suitable for use as follows:

- 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 90ºC Dry.

Southwire SIMpull MCAP™ 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.

SAMPLE PRINT LEGEND:

E96627 {UL} TYPE MC XX AWG THHN OR THWN CDRS FOR USE IN CABLE TRAYS 600 VOLTS -- ARMOR IS EQUIPMENT GROUNDING PATH COMPONENT

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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Conductor Number	Color	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Diameter Over Armor	Copper Weight	Overall Weight
	AWG/ Kcmil			inch		mils	inch	lbs/1000ft	lbs/1000ft
14 AWG | SOLID Strands									
TBA	14	2	BK,WE	0.064	SOLID	20	0.421	26	100
TBA	14	3	BK,RD,WE	0.064	SOLID	20	0.438	39	120
TBA	14	4	BK,RD,BE,WE	0.064	SOLID	20	0.465	52	142
12 AWG | SOLID Strands									
TBA	12	2	RD,WE	0.081	SOLID	20	0.455	40	124
TBA	12	2	BE,WE	0.081	SOLID	20	0.455	40	124
TBA	12	2	BK,RD	0.081	SOLID	20	0.455	40	124
459362	12	2	BK,WE	0.081	SOLID	20	0.455	40	124
459364	12	3	BK,RD,WE	0.081	SOLID	20	0.474	60	151
TBA	12	3	RD,WE,BE	0.081	SOLID	20	0.474	60	151
TBA	12	3	BK,WE,BE	0.081	SOLID	20	0.474	60	151
TBA	12	4	BK,RD,BE,WE	0.081	SOLID	20	0.506	80	182
TBA	12	6	BK,RD,BE,WE/BK,WE/ RD,WE/BE	0.081	SOLID	20	0.576	121	245
TBA	12	6	BK,BK/WE,RD/WE,RD,WE/ BK,WE	0.081	SOLID	20	0.576	121	245
TBA	12	8	BK,BK/WE,RD,RD/ WE,BE,BE/WE,WE,WE/BK	0.081	SOLID	20	0.614	161	301
12 AWG | 19 Strands									
TBA	12	3	RD,PE,WE	0.089	19	20	0.492	60	156
TBA	12	4	BK,RD,WE/BK,WE/RD	0.089	19	20	0.525	80	188
10 AWG | SOLID Strands									
TBA	10	2	BK,WE	0.102	SOLID	25	0.517	64	165
TBA	10	2	BE,WE	0.102	SOLID	25	0.517	64	165
TBA	10	2	RD,WE	0.102	SOLID	25	0.517	64	165
459365	10	3	BK,RD,WE	0.102	SOLID	25	0.541	96	208
TBA	10	4	BK,RD,BE,WE	0.102	SOLID	25	0.581	129	255
TBA	10	4	BK,RD,WE/BK,WE/RD	0.102	SOLID	25	0.581	129	255
TBA	10	6	BK,RD,BE,WE/BK,WE/ RD,WE/BE	0.102	SOLID	25	0.669	193	350
TBA	10	6	BK,BK/WE,RD,RD/ WE,WE,WE/BK	0.102	SOLID	25	0.669	193	350
10 AWG | 19 Strands									
TBA	10	4	BK,WE,RD,BE	0.113	19	25	0.607	129	266
TBA	10	6	BK,RD,BE,WE/BK,WE/ RD,WE/BE	0.113	19	25	0.702	193	364
TBA	10	6	BK,RD,BK/WE,RD/WE,WE/ BK,WE	0.113	19	25	0.702	193	364
TBA	8	2	BK,WE	0.142	19	35	0.637	103	242
TBA	8	3	BK,RD,WE	0.142	19	35	0.671	154	312
12 AWG | 19 Strands									

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Stock Number	Cond. Size	Conductor Number	Color	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Diameter Over Armor	Copper Weight	Overall Weight
	AWG/ Kcmil			inch		mils	inch	lbs/1000ft	lbs/1000ft
TBA	12	2	BE,WE	0.09	19	20	0.473	40	128
TBA	12	2	RD,WE	0.09	19	20	0.473	40	128
459363	12	2	BK,WE	0.09	19	20	0.473	40	128
459367	12	3	BK,RD,WE	0.09	19	20	0.494	60	156
TBA	12	4	BK,RD,BE,WE	0.09	19	20	0.528	80	188
10 AWG | 19 Strands									
TBA	10	2	BK,WE	0.117	19	25	0.547	64	173
TBA	10	3	BK,RD,WE	0.117	19	25	0.574	96	217

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
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.

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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	2	2.9	2.631	3.265	0.058	20	25
14	3	3.1	2.631	3.265	0.058	20	25
14	4	3.3	2.631	3.265	0.058	16	20
12 AWG | SOLID Strands							
12	2	3.2	1.662	2.063	0.054	25	30
12	2	3.2	1.662	2.063	0.054	25	30
12	2	3.2	1.662	2.063	0.054	25	30
12	2	3.2	1.662	2.063	0.054	25	30
12	3	3.3	1.662	2.063	0.054	25	30
12	3	3.3	1.662	2.063	0.054	25	30
12	3	3.3	1.662	2.063	0.054	25	30
12	4	3.5	1.662	2.063	0.054	20	24
12	6	4	1.662	2.063	0.054	20	24
12	6	4	1.662	2.063	0.054	20	24
12	8	4.3	1.662	2.063	0.054	18	21
12 AWG | 19 Strands							
12	3	3.4	1.662	2.063	0.054	25	30
12	4	3.7	1.662	2.063	0.054	20	24
10 AWG | SOLID Strands							
10	2	3.6	1.04	1.291	0.05	35	40
10	2	3.6	1.04	1.291	0.05	35	40
10	2	3.6	1.04	1.291	0.05	35	40
10	3	3.8	1.04	1.291	0.05	35	40
10	4	4.1	1.04	1.291	0.05	28	32
10	4	4.1	1.04	1.291	0.05	28	32
10	6	4.7	1.04	1.291	0.05	28	32
10	6	4.7	1.04	1.291	0.05	28	32
10 AWG | 19 Strands							
10	4	4.2	1.04	1.291	0.05	28	32
10	6	4.9	1.04	1.291	0.05	28	32
10	6	4.9	1.04	1.291	0.05	28	32
8	2	4.5	0.653	0.81	0.052	50	55
8	3	4.7	0.653	0.81	0.052	50	55
12 AWG | 19 Strands							
12	2	3.3	1.662	2.063	0.054	25	30
12	2	3.3	1.662	2.063	0.054	25	30
12	2	3.3	1.662	2.063	0.054	25	30
12	3	3.5	1.662	2.063	0.054	25	30
12	4	3.7	1.662	2.063	0.054	20	24

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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
10 AWG | 19 Strands							
10	2	3.8	1.04	1.291	0.05	35	40
10	3	4	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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