Copper Riser MC™ Cable Type MC Cu Feeder THHN/THWN-2 Conductors

Copper THHN/THWN-2 Insulated Singles. Bare or Insulated Copper Grounding Conductor. UL Listed. 600 Volts. Binder Jacket for Continuous Conductor Support. Lightweight Aluminum Interlocked Armor.

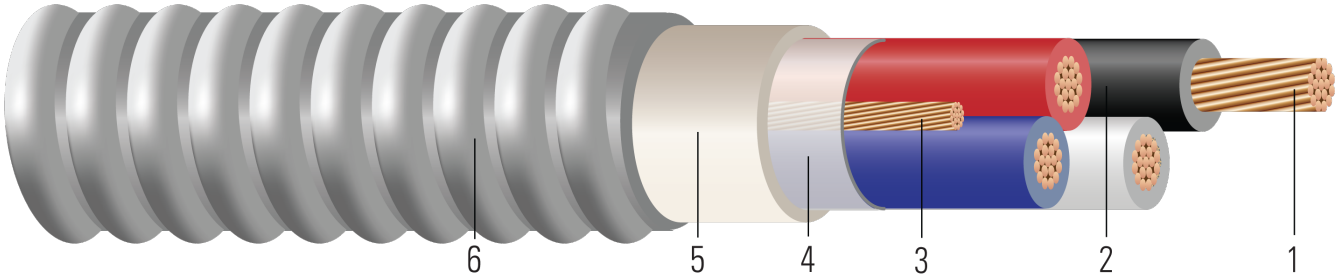


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed soft drawn bare copper per ASTM B3 and B8 or combination unilay soft drawn bare copper per ASTM B3 and B787
2. **Insulation:** All phases are insulated with Polyvinyl Chloride with Nylon Sheath Type THHN/THWN-2
3. **Ground:** Bare or insulated copper ground
4. **Binder:** Polypropylene binder tape
5. **Polymeric Binder:** Polymeric binder sheath under armor for continuous conductor support
6. **Armor:** Aluminum Interlocked Armor

APPLICATIONS AND FEATURES:

Southwire Armorlite® Type MC Riser Feeder cable is suitable for use as follows:

- Riser cable, vertical applications
- 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, or as aerial cable on a messenger.
- Under raised floors for information technology equipment conductors and cables per NEC 645.5(D) & 645.5(E)
- Class I Div. 2, Class II Div 2, & Class III Div. 1 Hazardous Locations.
- Conductors are Type THHN/THWN-2 rated 90ºC Wet and Dry. Unjacketed MC cables are not rated for wet locations.

Southwire Armorlite® Type MC Riser Feeder 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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- ASTM B787 19 Wire Combination Unilay-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
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- 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:

SOUTHWIRE {UL} X/C XX AWG GW 1 X XX AWG CU TYPE MC THHN CDRS 600V {SEQUENTIAL FOOTAGE MARKS} SEQ FEET

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Conductor Number	Color	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Ground Size	Diameter Over Armor	Copper Weight	Overall Weight
	AWG/ Kcmil			inch		mils	No. x AWG	inch	lbs/ 1000ft	lbs/ 1000ft
646552	2/0	4	BN,OE,YW,GY,GN	0.405	19	50	1x3	1.925	1824	2665
587704◊	3/0	3	BK,RD,WE	0.456	19	50	1x0	1.958	1899	2663
640551	3/0	4	BN,OE,YW,GY,GN	0.456	19	50	1x2	2.086	2300	3235
674323	4/0	4	BN,OE,YW,GY,GN	0.512	19	50	1x2	2.113	2846	3792
598048	400	4	BN,OE,YW,GY,GN	0.706	1	60	1x4/0	2.841	5649	7060
583932◊	4	4	BN,OE,YW,GY,GN	0.225	1	40	1x8	1.343	572	1035
587705◊	1	4	BK,RD,BE,WE	0.322	1	50	1x0	1.818	1208	1939
640554	1	4	BN,OE,YW,GY,GN	0.322	1	50	1x6	1.658	1125	1807
640558	1/0	4	BK,RD,BE,WE	0.362	1	50	1x6	1.748	1399	2131
646808◊	2/0	4	BN,OE,YW,GY	0.405	1	50	1x3	1.863	1824	2620
678001◊	3/0	4	1,2,3,4	0.456	1	50	1x4	2.118	2223	3136
672532	3/0	4	BK,RD,BE,WE	0.456	19	50	1x0	1.953	2223	3074
587710◊	4/0	4	BK,RD,BE,WE	0.512	1	50	1x0	2.318	3299	4291
583433◊	4/0	4	1-BK,2-RD,3-BE,WE	0.512	1	50	1x4	2.237	2770	3733
677978◊	250	4	1,2,3,4	0.558	1	60	1x1/0	2.268	3448	4485
674326◊	350	4	BN,OE,YW,GY,GN	0.661	1	60	1x1	2.518	4627	5874
679715◊	400	4	1-ONE,2-TWO,3-THREE,4-FOUR,GN	0.706	1	60	1x4/0	2.743	5649	6986
586733◊	600	4	BK,RD,BE,WE	0.866	1	70	1x2	2.992	7691	9195

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. Does not include 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.

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Table 2 – Electrical and Engineering Data

Cond. Size	Conductor Number	Min. Bend Radius	Max Pull Tension	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	Lbs	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
2/0	4	13.5	4259	0.082	0.102	0.043	-	-
3/0	3	13.7	4027	0.064	0.079	0.042	200	225
3/0	4	14.6	5369	0.064	0.079	0.042	160	180
4/0	4	14.8	6771	0.051	0.063	0.041	184	208
400	4	19.9	12800	0.027	0.035	0.04	268	304
4	4	9.4	1335	0.258	0.32	0.048	68	76
1	4	12.7	2678	0.128	0.159	0.046	104	116
1	4	11.6	2678	0.128	0.159	0.046	104	116
1/0	4	12.2	3379	0.102	0.127	0.044	120	136
2/0	4	13	4259	0.082	0.102	0.043	140	156
3/0	4	14.8	5369	0.064	0.079	0.042	160	180
3/0	4	13.7	5369	0.064	0.079	0.042	160	180
4/0	4	16.2	6771	0.051	0.063	0.041	184	208
4/0	4	15.7	6771	0.051	0.063	0.041	184	208
250	4	15.9	8000	0.043	0.053	0.041	204	232
350	4	17.6	11200	0.031	0.039	0.04	248	280
400	4	19.2	12800	0.027	0.035	0.04	268	304
600	4	20.9	19200	0.018	0.024	0.039	336	380

* Ampacities based upon 2023 NEC Table 310.16. 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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