

Alumaflex Riser MC™ Cable

Type MC AL Feeder THHN/THWN-2 Conductors



1 AWG through 900 kcmil AlumaFlex™ THHN/THWN-2 Insulated Singles with 8000 series Triple E™ Aluminum Alloy. Bare AlumaFlex™ Aluminum Alloy Grounding Conductor. UL Listed. 600 Volts. Binder Jacket for Continuous Conductor Support. Lightweight Aluminum Interlocked Armor.

APPLICATIONS

Suitable for use as follows:

- Riser Cable, vertical applications
- Branch, feeder and service power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Power, lighting, control, and signal circuits.
- 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).

STANDARDS & REFERENCES

Southwire AlumaFlex Riser MC™ Cable meets or exceeds the requirements of:

- UL 83
- UL 1569
- UL 1685
- ICEA S-95-658 (NEMA WC70)
- Federal Specification A-A59544 (formerly J-C-30B)
- FT4/IEEE 1202 (70,000 Btu/hr)
- NFPA 70 (National Electrical Code), Article 330
- Listed for use in UL 1, 2, and 3 Hour Through-Penetration Firestop Systems
- REACH/RoHS-2 (Chemical Limit) Compliant

CONSTRUCTION

Southwire AlumaFlex Riser MC™ Cable with Triple E™ Aluminum Alloy is constructed with Type THHN/THWN-2 conductors and a bare equipment grounding conductor. Conductors are AlumaFlex™ 8000 series aluminum alloy compact stranded. A binder tape is wrapped over the conductors and an integral polymeric binder jacket is applied under armor for continuous conductor support. Aluminum interlocking armor is applied snugly over the assembly. An optional overall PVC Jacket can be applied over the armor.

FEATURES

- Ideal for use in vertical high rise applications
- Available with aluminum or copper THHN or XHHW conductors
- Available in custom constructions and lengths
- Polymeric binder jacket over the conductors provides continuous conductor support
- Available with Southwire pulling heads and on stacked reels.



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Riser MC Cable

CONDUCTOR SIZE AND COLORS	GROUNDING SIZE AND COLOR	STOCK NUMBER	WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
1-4 AL (BLACK/WHITE/RED/BLUE)	4 ALUMINUM (BARE)	59-75-42-99	970	1.615
1/0-3 AL (BLACK/WHITE/RED)	4 ALUMINUM (BARE)	67-41-06-99	850	1.438
1/0-4 AL (BROWN/ORANGE/YELLOW/GRAY)	4 ALUMINUM (GREEN)	58-34-62-99	1165	1.820
2/0-3 AL (BLACK/WHITE/RED)	4 ALUMINUM (GREEN)	58-37-66-99	1070	1.695
2/0-4 AL (BLACK/WHITE/RED/BLUE)	4 ALUMINUM (BARE)	59-62-79-99	1245	1.770
3/0-3 AL (BLACK/WHITE/RED)	4 ALUMINUM (GREEN)	58-39-13-99	1230	1.865
3/0-4 AL (BLACK/WHITE/RED/BLUE)	4 ALUMINUM (BARE)	59-33-49-99	1505	2.035
4/0-3 AL (BLACK/WHITE/RED)	2 ALUMINUM (GREEN)	58-39-17-99	1445	1.945
4/0-4 AL (BROWN/ORANGE/YELLOW/GRAY)	1 ALUMINUM (GREEN)	58-18-69-01	1805	2.160
250-3 AL (BROWN/ORANGE/YELLOW)	1 ALUMINUM (BARE)	58-06-37-99	1650	1.995
250-4 AL (BROWN/ORANGE/YELLOW/GRAY)	1 ALUMINUM (BARE)	56-52-12-99	1995	2.160
350-4 AL (BLACK/WHITE/RED/BLUE)	1/0 ALUMINUM (BARE)	56-11-35-99	2540	2.445
400-4 AL (BROWN/ORANGE/YELLOW/GRAY)	3/0 ALUMINUM (BARE)	58-06-34-99	2845	2.500
500-3 AL (BROWN/ORANGE/YELLOW)	250 ALUMINUM (BARE)	57-32-54-99	2817	2.673
500-4 AL (BROWN/ORANGE/YELLOW/GRAY)	3/0 ALUMINUM (GREEN)	56-49-42-99	3340	2.685
600-4 AL (BLACK/WHITE/RED/BLUE)	3/0 ALUMINUM (GREEN)	58-65-44-99	4035	3.070
750-3 AL (BROWN/ORANGE/YELLOW)	3/0 ALUMINUM (BARE)	56-27-00-99	3690	2.880
750-4 AL (BLACK/WHITE/RED/BLUE)	3/0 ALUMINUM (BARE)	56-11-37-99	4640	3.160
750-4 AL (BLACK/WHITE/RED/BLUE)	600 ALUMINUM (GREEN)	64-39-36-99	5302	3.462

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Riser MC Cable

750-4 AL (BLACK/WHITE/RED/BLUE)	750 ALUMINUM (GREEN)	64-36-18-99	5461	3.465
900-4 AL (BROWN/ORANGE/YELLOW/GRAY)	250 ALUMINUM (BARE)	58-09-75-99	5575	3.653
* Available with oversize grounding conductors and other constructions upon request.				

NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F)	75°C (167°F)	90°C (194°F)
	Types: TW, UF	Types: RHW, THHW, THW, THWN, XHHW, USE, ZW	Types: TBS, SA, SIS, RHH, RHW-2, THHN, THHW, THW- 2, THWN-2, USE-2, XHH, XHHW, XHHW-2, ZW-2
ALUMINUM or COPPER-CLAD ALUMINUM			
18	-	-	-
16	-	-	-
14	-	-	-
12	15	20	25
10	25	30	35
8	35	40	45
6	40	50	55
4	55	65	75
3	65	75	85
2	75	90	100
1	85	100	115
1/0	100	120	135
2/0	115	135	150
3/0	130	155	175
4/0	150	180	205
250	170	205	230
300	195	230	260
350	210	250	280
400	225	270	305
500	260	310	350
600	285	340	385
700	315	375	425
750	320	385	435
800	330	395	445
900	355	425	480
1000	375	445	500
1250	405	485	545
1500	435	520	585
1750	455	545	615
2000	470	560	630

Per NEC 310.15(B)(5), the ampacity of 4/C cables shall be reduced by a factor of 0.80 when the neutral is considered a current-carrying conductor.

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