Armorlite® Type MC THHN/THWN Aluminum Conductor Feeder Cable 277/480V Colors

Aluminum THHN/THWN-2 Insulated Singles with 8000 series Triple E™ Aluminum Alloy. Bare AlumaFlex™ Aluminum Alloy Grounding Conductor. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor.

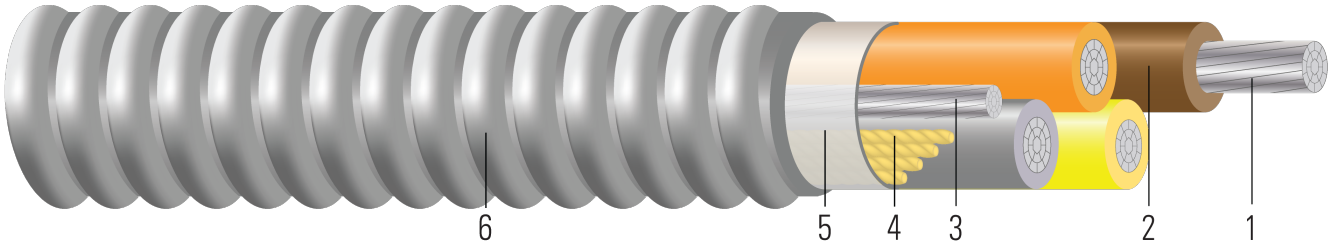


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compact stranded 8000 Series aluminum per ASTM B800 and ASTM B801or ASTM B836
2. **Insulation:** All phases are insulated with Polyvinyl Chloride with Nylon Sheath Type THHN/THWN
3. **Ground:** Bare aluminum ground
4. **Filler:** Fillers as needed
5. **Binder:** Mylar tape
6. **Armor:** Aluminum Interlocked Armor

APPLICATIONS AND FEATURES:

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

- Feeder and service power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Fished or embedded in plaster.
- Concealed or exposed installations.
- Suitable for power and lighting circuits.
- Places of Assembly per NEC 518.4 and theaters per NEC 520.5.
- Environmental air-handling spaces per NEC 300.22 (C).
- 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.
- Type THHN/THWN rated 90ºC Dry/ 75ºC Wet
- Anti-short bushings are not required for use with MC cable per NEC and UL

Southwire Armorlite® Type MC 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

Color Code - 3/C: Brown, Orange, Yellow
- 4/C: Brown, Orange, Yellow, Gray

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SPECIFICATIONS:

- ASTM B800 8000 Series Aluminum Alloy Wire
- ASTM B801 Concentric-Lay-Stranded Conductors of 8000 Series Aluminum Alloy
- ASTM B836 Compact Rounded Stranded Aluminum 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 Compliant Lead-Free, Silicone-Free, Halogen Free
- 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 AWG XX THHN OR THWN CDRS FOR USE IN CABLE TRAYS 600 VOLTS

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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Conductor Number	Color	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Ground Size	Diameter Over Armor	Overall Weight
	AWG/ Kcmil			inch		mils	No. x AWG	inch	lbs/1000ft
565427◊	1/0	3	BN,OE,YW	0.336	10	50	1x4	1.257	635
565429◊	2/0	3	BN,OE,YW,	0.376	12	50	1x4	1.343	740
563370◊	2/0	3	BN,OE,GY	0.376	12	50	1x4	1.343	740
562811◊	3/0	3	BN,OE,YW	0.423	16	50	1x4	1.465	925
562708◊	4/0	3	BN,OE,YW	0.475	19	50	1x2	1.577	1113
561587◊	250	3	BN,OE,YW	0.52	22	60	1x2/0	1.75	1370
562816◊	250	3	BN,OE,YW	0.52	22	60	1x1	1.722	1318
562818◊	300	3	BN,OE,YW	0.57	21	60	1x1	1.83	1506
563052◊	350	3	BN,OE,YW	0.616	35	60	1x1	1.929	1682
562704◊	400	3	BN,OE,YW	0.659	35	60	1x3/0	2.041	1946
573366◊	600	3	BN,OE,YW	0.813	41	70	1x400	2.48	2946
563046◊	750	3	BN,OE,YW	0.908	53	70	1x1/0	2.608	3160
563365◊	1/0	4	BN,OE,YW,GY	0.336	10	50	1x4	1.384	811
563374◊	2/0	4	BN,OE,YW,GY	0.376	12	50	1x4	1.472	954
559894◊	3/0	4	BN,OE,YW,GY	0.423	16	50	1x4	1.603	1192
559896◊	4/0	4	BN,OE,YW,GY	0.475	19	50	1x2	1.738	1439
559904◊	250	4	BN,OE,YW,GY	0.52	22	60	1x1	1.901	1701
559907◊	300	4	BN,OE,YW,GY	0.57	21	60	1x1	2.011	1953
559909◊	350	4	BN,OE,YW,GY	0.616	35	60	1x1/0	2.131	2207
559911◊	400	4	BN,OE,YW,GY	0.659	35	60	1x3/0	2.269	2508
559915◊	500	4	BN,OE,YW,GY	0.736	34	60	1x3/0	2.439	2964
138297	500	4	BN,OE,YW,GY	0.736	34	60	1x350	2.534	3187
559869◊	600	4	BN,OE,YW,GY	0.813	41	70	1x400	2.756	3755
559917◊	600	4	BN,OE,YW,GY	0.813	41	70	1x3/0	2.64	3514
559919◊	750	4	BN,OE,YW,GY	0.908	53	70	1x3/0	2.88	4217
593450	750	4	BN,OE,YW,GY	0.908	53	70	1x350	2.962	4405
559866◊	900	4	BN,OE,YW,GY	0.999	56	70	1x250	3.116	5046

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
* Strand count meets minimum number per ASTM
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
1/0	3	8.8	1900	0.167	0.208	0.044	120	135
2/0	3	9.4	2395	0.133	0.166	0.043	135	150
2/0	3	9.4	2395	0.133	0.166	0.043	135	150
3/0	3	10.3	3020	0.105	0.131	0.042	155	175
4/0	3	11	3808	0.084	0.105	0.041	180	205
250	3	12.2	4500	0.07	0.087	0.041	205	230
250	3	12.1	4500	0.07	0.087	0.041	205	230
300	3	12.8	5400	0.059	0.074	0.041	230	260
350	3	13.5	6300	0.051	0.064	0.04	250	280
400	3	14.3	7200	0.044	0.055	0.04	270	305
600	3	17.4	10800	0.03	0.038	0.039	340	385
750	3	18.3	13500	0.023	0.03	0.038	385	435
1/0	4	9.7	2534	0.167	0.208	0.044	96	108
2/0	4	10.3	3194	0.133	0.166	0.043	108	120
3/0	4	11.2	4027	0.105	0.131	0.042	124	140
4/0	4	12.2	5078	0.084	0.105	0.041	144	164
250	4	13.3	6000	0.07	0.087	0.041	164	184
300	4	14.1	7200	0.059	0.074	0.041	184	208
350	4	14.9	8400	0.051	0.064	0.04	200	224
400	4	15.9	9600	0.044	0.055	0.04	216	244
500	4	17.1	12000	0.036	0.045	0.039	248	280
500	4	17.7	12000	0.036	0.045	0.039	248	280
600	4	19.3	14400	0.03	0.038	0.039	272	308
600	4	18.5	14400	0.03	0.038	0.039	272	308
750	4	20.2	18000	0.023	0.03	0.038	308	348
750	4	20.7	18000	0.023	0.03	0.038	308	348
900	4	21.8	21600	0.019	0.025	0.037	340	384

* 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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