

# 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.

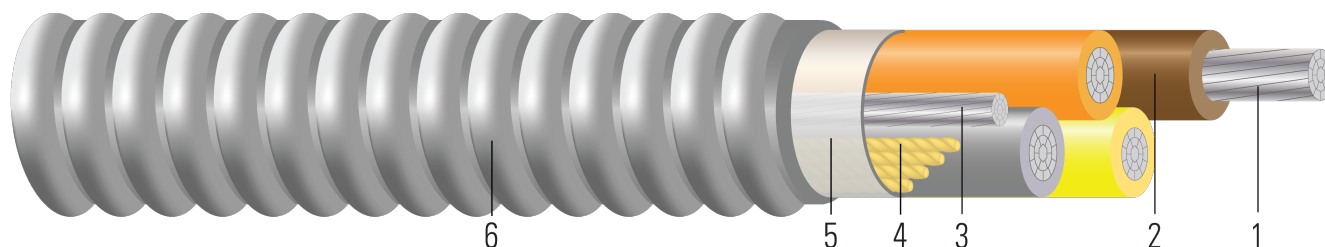


Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Class B compact stranded 8000 Series aluminum per ASTM B800 and ASTM B801 or 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 90°C Dry/ 75°C 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](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

## Color Code

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



Southwire Company, LLC | One Southwire Drive, Carrollton, GA 30119 | [www.southwire.com](http://www.southwire.com)



Southwire

**CABLETECH  
SUPPORT™**

Services

**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
- 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.
- REACH - European Community Regulation

**SAMPLE PRINT LEGEND:**

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



**Table 1 – Weights and Measurements**

Stock Number	Cond. Size	Conductor Number	Color	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Ground Size x Num	Diameter Over Armor	Overall Weight
	AWG/ Kcmil			inch		mils	No. x AWG	inch	lbs/1000ft
565427◇	1/0	3	BN/OE/ YW	0.336	19	60	1x4	1.240	614
563370◇	2/0	3	BN/OE/GY	0.376	19	60	1x4	1.276	705
565429◇	2/0	3	BN/OE/ YW	0.376	19	60	1x4	1.276	705
562811◇	3/0	3	BN/OE/ YW	0.422	19	60	1x4	1.377	833
562708◇	4/0	3	BN/OE/ YW	0.474	19	60	1x2	1.59	1087
561587◇	250	3	BN/OE/ YW	0.520	35	70	1x2/0	1.735	1336
562816◇	250	3	BN/OE/ YW	0.520	35	70	1x1	1.731	1292
562818◇	300	3	BN/OE/ YW	0.569	35	70	1x1	1.843	1474
563052◇	350	3	BN/OE/ YW	0.615	35	70	1x1	1.942	1651
562704◇	400	3	BN/OE/ YW	0.659	35	70	1x3/0	2.035	1911
562706◇	500	3	BN/OE/ YW	0.735	35	70	1x2/0	2.201	2226
573366◇	600	3	BN/OE/ YW	0.812	58	80	1x400	2.662	2916
563046◇	750	3	BN/OE/ YW	0.908	58	80	1x1/0	2.620	3121
563365◇	1/0	4	BN/OE/ YW/GY	0.336	19	60	1x4	1.304	778
563374◇	2/0	4	BN/OE/ YW/GY	0.376	19	60	1x4	1.400	918
559894◇	3/0	4	BN/OE/ YW/GY	0.422	19	60	1x4	1.614	1168
559896◇	4/0	4	BN/OE/ YW/GY	0.474	19	60	1x2	1.739	1414
559904◇	250	4	BN/OE/ YW/GY	0.520	35	70	1x1	1.901	1678
559907◇	300	4	BN/OE/ YW/GY	0.569	35	70	1x1	2.022	1933
559909◇	350	4	BN/OE/ YW/GY	0.615	35	70	1x1/0	2.133	2183
559911◇	400	4	BN/OE/ YW/GY	0.659	35	70	1x3/0	2.237	2491
559915◇	500	4	BN/OE/ YW/GY	0.735	35	70	1x3/0	2.423	2948
559917◇	600	4	BN/OE/ YW/GY	0.812	58	80	1x3/0	2.642	3508
559869◇	600	4	BN/OE/ YW/GY	0.812	58	80	1x400	2.781	3752



Stock Number	Cond. Size	Conductor Number	Color	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Ground Size x Num	Diameter Over Armor	Overall Weight
	AWG/Kcmil			inch		mils	No. x AWG	inch	lbs/1000ft
559919◇	750	4	BN/OE/YW/GY	0.908	58	80	1x3/0	2.891	4227
593450	750	4	BN/OE/YW/GY	0.908	58	80	1x350	3.196	4452
559866◇	900	4	BN/OE/YW/GY	0.999	58	80	1x250	3.148	5062

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

**Table 2 – Electrical and Engineering Data**

Stock Number	Cond. Size	Min. Bend Radius	Max Pull Tension	DC Resistance at 25°C	AC Resistance at 75°C	Allowable Ampacity Raceway 60°C <sup>†</sup>	Allowable Ampacity Raceway 75°C <sup>†</sup>	Allowable Ampacity Raceway 90°C <sup>†</sup>
	AWG/Kcmil	Inches	Lbs	Ω/1000ft	Ω/1000ft	Amp	Amp	Amp
565427◇	1/0	8.6	1900	0.168	0.201	100	120	135
563370◇	2/0	8.9	2395	0.133	0.160	115	135	150
565429◇	2/0	8.9	2395	0.133	0.160	115	135	150
562811◇	3/0	9.6	3020	0.105	0.126	130	155	175
562708◇	4/0	11.1	3808	0.084	0.100	150	180	205
561587◇	250	12.1	4500	0.071	0.086	170	205	230
562816◇	250	12.1	4500	0.071	0.086	170	205	230
562818◇	300	12.9	5400	0.059	0.071	195	230	260
563052◇	350	13.5	6300	0.050	0.062	210	250	280
562704◇	400	14.2	7200	0.044	0.054	225	270	305
562706◇	500	15.4	9000	0.035	0.044	260	310	350
573366◇	600	18.6	10800	0.029	0.037	285	340	385
563046◇	750	18.3	13500	0.024	0.031	320	385	435
563365◇	1/0	9.1	2534	0.168	0.201	80	96	108
563374◇	2/0	9.8	3194	0.133	0.160	92	108	120
559894◇	3/0	11.2	4027	0.105	0.126	104	124	140
559896◇	4/0	12.1	5078	0.084	0.100	120	144	164
559904◇	250	13.3	6000	0.071	0.086	136	164	184
559907◇	300	14.1	7200	0.059	0.071	156	184	208
559909◇	350	14.9	8400	0.050	0.062	168	200	224
559911◇	400	15.6	9600	0.044	0.054	180	216	244
559915◇	500	16.9	12000	0.035	0.044	208	248	280
559917◇	600	18.4	14400	0.029	0.037	228	272	308
559869◇	600	19.4	14400	0.029	0.037	228	272	308
559919◇	750	20.2	18000	0.024	0.031	256	308	348
593450	750	22.3	18000	0.024	0.031	256	308	348
559866◇	900	22.0	21600	0.020	0.027	284	340	384



† Ampacities have been adjusted for more than Three Current-Carrying Conductors

† Ampacities based upon 2023 NEC Table 310.16. Also, see NEC sections 310.15 and 110.14(C) for additional requirements.

