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

Aluminum THHN/THWN 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. Overall PVC Jacket. Sunlight Resistant.

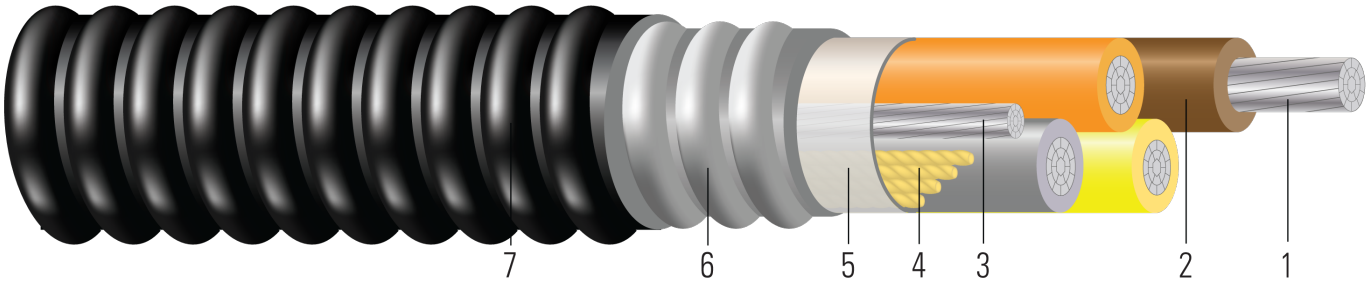


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compact stranded 8000 Series aluminum per ASTM B800 and ASTM B801
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
7. **Jacket:** Polyvinyl Chloride (PVC) sunlight resistant, and corrosion resistant

APPLICATIONS AND FEATURES:

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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.
- Where exposed to cinder fills, strong chlorides, caustic alkalis, or vapors of chlorine or of hydrochloric acids.
- Fished or embedded in plaster.
- Concealed or exposed installations.
- Suitable for Wet Location per NEC 330.10(A)(11)
- 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.
- Type THHN/THWN rated 90ºC Dry/ 75ºC Wet

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

SPECIFICATIONS:

- ASTM B800 8000 Series Aluminum Alloy Wire
- ASTM B801 Concentric-Lay-Stranded Conductors of 8000 Series Aluminum Alloy
- 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
- 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} E96627 X/C XXX KCMIL COMPACT 8000 AL. --- TRIPLE E ALLOY AA8176 THHN OR THWN CDRS 600 VOLTS GW 1 X X AWG TYPE MC EZ-JKT FOR CT USE SUN. RES. 90 DEGREES C

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UPDATED: Dec. 31, 2024, 11:08 p.m.UTC REVISION: 1.000.008

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Conductor Number	Color	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Ground Size	Diameter Over Armor	Jacket Thickness	Approx. OD	Overall Weight
	AWG/ Kcmil			inch		mils	No. x AWG	inch	mil	inch	lbs/ 1000ft
587518◊	300	3	BN,OE,GY	0.57	21	60	1x1	1.83	60	1.956	1735
584969◊	350	3	BN,OE,GY	0.616	35	60	1x1	1.929	60	2.055	1924
587515◊	400	3	BN,OE,GY	0.659	35	60	1x1	2.022	60	2.148	2113
677834◊	400	3	BN,OE,YW,GN	0.659	35	60	1x1	2.039	60	2.165	2149
591435◊	400	3	BN,OE,YW	0.659	35	60	1x3/0	2.096	60	2.216	2169
584970◊	500	3	BN,OE,GY	0.736	34	60	1x1	2.188	60	2.314	2483
678137◊	500	3	BN,OE,YW	0.736	34	60	1x4/0	2.215	60	2.341	2613
591438◊	600	3	BN,OE,YW	0.813	58	70	1x3/0	2.415	75	2.565	3012
563305◊	750	3	BN,OE,YW	0.908	53	70	1x750	2.8	75	2.958	4298
677814◊	1	4	BN,OE,YW,GY,GN	0.299	8	50	1x4	1.341	50	1.447	860
560757◊	3/0	4	BN,OE,YW,GY	0.423	16	50	1x4	1.614	60	1.74	1362
560758◊	4/0	4	BN,OE,YW,GY	0.475	19	50	1x2	1.74	60	1.866	1623
560759◊	250	4	BN,OE,YW,GY	0.52	22	60	1x1	1.901	60	2.027	1939
560760◊	300	4	BN,OE,YW,GY	0.57	21	60	1x1	2.022	60	2.148	2174
560766◊	350	4	BN,OE,YW,GY	0.616	35	60	1x1/0	2.131	60	2.257	2473
560767◊	500	4	BN,OE,YW,GY	0.736	34	60	1x3/0	2.439	75	2.597	3346
560770◊	600	4	BN,OE,YW,GY	0.813	41	70	1x3/0	2.64	75	2.798	3927
560784◊	750	4	BN,OE,YW,GY	0.908	53	70	1x3/0	2.88	75	3.038	4645

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
300	3	13.7	5400	0.059	0.074	0.041	230	260
350	3	14.4	6300	0.051	0.064	0.04	250	280
400	3	15	7200	0.044	0.055	0.04	270	305
400	3	15.2	7200	0.044	0.055	0.04	270	305
400	3	15.5	7200	0.044	0.055	0.04	270	305
500	3	16.2	9000	0.036	0.045	0.039	310	350
500	3	16.4	9000	0.036	0.045	0.039	310	350
600	3	18	10800	0.03	0.038	0.039	340	385
750	3	20.7	13500	0.023	0.03	0.038	385	435
1	4	10.1	2008	0.211	0.263	0.046	80	92
3/0	4	12.2	4027	0.105	0.131	0.042	124	140
4/0	4	13.1	5078	0.084	0.105	0.041	144	164
250	4	14.2	6000	0.07	0.087	0.041	164	184
300	4	15	7200	0.059	0.074	0.041	184	208
350	4	15.8	8400	0.051	0.064	0.04	200	224
500	4	18.2	12000	0.036	0.045	0.039	248	280
600	4	19.6	14400	0.03	0.038	0.039	272	308
750	4	21.3	18000	0.023	0.03	0.038	308	348

* 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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