



# Armorlite® Type MC THHN/THWN PVC Jacketed Aluminum Conductor Feeder Cable 120/208V Colors. Silicone Free

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.

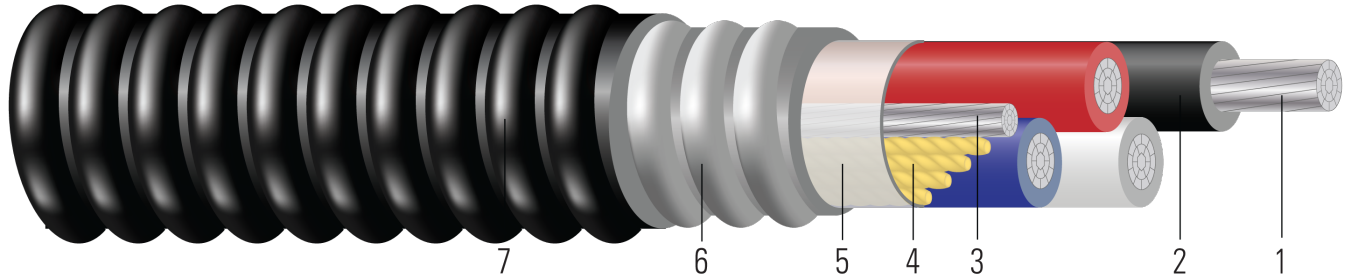


Image not to scale. See Table 1 for dimensions.

## 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:

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(D)(2)
- Class I Div. 2, Class II Div 2, & Class III Div. 1 Hazardous Locations.
- Type THHN/THWN rated 90°C Dry/ 75°C 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](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: Black, Red, White





- 4/C: Black, Red, Blue, White

**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





**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
678282	1/0	2	BK/RD	0.336	10	60	1x2	1.118	50	1.218	587
679278	3/0	2	BK/RD	0.422	16	60	1x1/0	1.292	55	1.402	811
593086	4/0	2	BK/WE	0.474	19	60	1x1/0	1.396	55	1.506	934
675674	300	2	BK/RD	0.569	21	70	1x4/0	1.843	65	1.975	1468
679281	350	2	BK/RD	0.615	35	70	1x250	1.942	65	2.074	1639
552587	1/0	3	BK/RD/ WE	0.336	10	60	1x4	1.190	50	1.290	723
552465	2/0	3	BK/RD/ WE	0.376	12	60	1x4	1.276	55	1.386	846
552464	3/0	3	BK/RD/ WE	0.422	16	60	1x4	1.377	50	1.477	968
552484	4/0	3	BK/RD/ WE	0.474	19	60	1x2	1.590	65	1.722	1297
555667	250	3	BK/RD/ WE	0.520	22	70	1x2	1.735	65	1.867	1492
563804	250	3	BK/RD/ WE	0.520	22	70	1x1	1.735	65	1.867	1512
599377	250	3	BK/RD/ WE	0.520	22	70	1x1/0 GG	1.813	65	1.945	1608
561248	350	3	BK/RD/ WE	0.615	35	70	1x1	1.942	65	2.074	1905
555809	500	3	BK/RD/ WE	0.735	35	70	1x1	2.201	65	2.333	2466
563589	500	3	BK/RD/ WE	0.735	35	70	1x3/0	2.201	65	2.333	2547
555812	750	3	BK/RD/ WE	0.908	58	80	1x1/0	2.620	80	2.786	3553
554282	1/0	4	BK/RD/ BE/WE	0.336	10	60	1x4	1.304	55	1.414	925
555807	2/0	4	BK/RD/ BE/WE	0.376	12	60	1x4	1.400	55	1.510	1072
554283	4/0	4	BK/RD/ BE/WE	0.474	19	60	1x2	1.749	65	1.881	1648
679730	250	4	BK/RD/ BE/WE	0.520	22	70	1x2	1.901	65	2.033	1864
554284	250	4	BK/RD/ BE/WE	0.520	22	70	1x1	1.901	65	2.033	1928
554935	300	4	BK/RD/ BE/WE	0.569	21	70	1x1	2.022	65	2.154	2197
555808	350	4	BK/RD/ BE/WE	0.615	35	70	1x1/0	2.133	65	2.265	2462
554932	500	4	BK/RD/ BE/WE	0.735	35	70	1x3/0	2.423	80	2.589	3347
555811	600	4	BK/RD/ BE/WE	0.812	58	80	1x3/0	2.662	75	2.812	3798
560782	600	4	BK/RD/ BE/WE	0.812	58	80	1x400	2.919	80	3.085	4163





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
554933	750	4	BK/RD/ BE/WE	0.908	53	80	1x3/0	2.895	80	3.061	4704
563603	750	4	BK/RD/ BE/WE	0.908	53	80	1x750	3.200	90	3.388	5406

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

**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	2	8.5	1267	0.168	0.201	0.044	120	135
3/0	2	9.8	2013	0.105	0.126	0.042	155	175
4/0	2	10.5	2539	0.084	0.100	0.041	180	205
300	2	13.8	3600	0.059	0.071	0.041	230	260
350	2	14.5	4200	0.050	0.062	0.040	250	280
1/0	3	9.0	1900	0.168	0.201	0.044	120	135
2/0	3	9.7	2395	0.133	0.160	0.043	135	150
3/0	3	10.3	3020	0.105	0.126	0.042	155	175
4/0	3	12.1	3808	0.084	0.100	0.041	180	205
250	3	13.1	4500	0.071	0.086	0.041	205	230
250	3	13.1	4500	0.071	0.086	0.041	205	230
250	3	13.6	4500	0.071	0.086	0.041	205	230
350	3	14.5	6300	0.050	0.062	0.040	250	280
500	3	16.3	9000	0.035	0.044	0.039	310	350
500	3	16.3	9000	0.035	0.044	0.039	310	350
750	3	19.5	13500	0.024	0.031	0.038	385	435
1/0	4	9.9	2027	0.168	0.201	0.044	96	108
2/0	4	10.6	2555	0.133	0.160	0.043	108	120
4/0	4	13.2	4062	0.084	0.100	0.041	144	164
250	4	14.2	4800	0.071	0.086	0.041	164	184
250	4	14.2	4800	0.071	0.086	0.041	164	184
300	4	15.1	5760	0.059	0.071	0.041	184	208
350	4	15.9	6720	0.050	0.062	0.040	200	224
500	4	18.1	9600	0.035	0.044	0.039	248	280
600	4	19.7	11520	0.029	0.037	0.039	272	308
600	4	21.6	11520	0.029	0.037	0.039	272	308
750	4	21.4	14400	0.024	0.031	0.038	308	348
750	4	23.7	14400	0.024	0.031	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.

