Armorlite® Type MC THHN/THWN Aluminum Conductor Feeder Cable with Green Insulated Ground 120/208V Colors

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

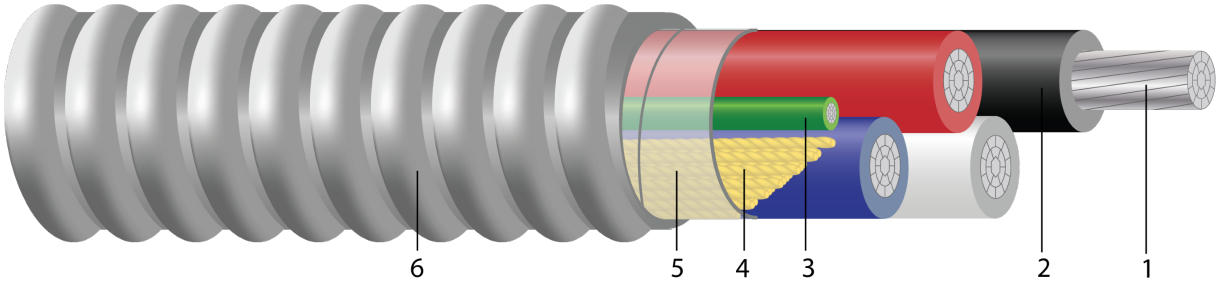


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compact stranded 8000 Series aluminum per ASTM B800 and ASTM B801
2. **Insulation:** All phases are insulated with Polyvinyl Chloride with Nylon Sheath Type THHN/THWN
3. **Ground:** Green Insulated 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.
- 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

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

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

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UPDATED: June 24, 2025, 11:35 a.m.UTC REVISION: 1.000.002

- 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:

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
457713	1/0	3	BK,RD,WE,GN	0.336	10	50	1x4	1.302	666
457715	1/0	3	BK,RD,WE,GN	0.336	10	50	1x2	1.329	698
457720	1/0	3	BK,RD,WE,GN	0.336	1	50	1x4	1.569	928
456938	2/0	3	BK,RD,WE,GN	0.376	12	50	1x4	1.379	769
457723	2/0	3	BK,RD,WE,GN	0.376	12	50	1x2	1.406	802
649600	2/0	3	BK,RD,WE,GN	0.376	12	50	1x4	1.318	705
456829	3/0	3	BK,RD,WE,GN	0.423	16	50	1x2/0	1.58	1082
456827	3/0	3	BK,RD,WE,GN	0.423	16	50	1x3	1.502	969
458396	3/0	3	BK,RD,WE,GN	0.423	16	50	1x4	1.489	953
583382	4/0	3	BK,RD,WE	0.475	19	50	1x1	1.584	1130
456818	4/0	3	BK,RD,WE,GN	0.475	19	50	1x2	1.616	1150
456816	4/0	3	BK,RD,WE,GN	0.475	19	50	1x1	1.642	1181
580893	4/0	4	BK,RD,BE,WE,GN	0.475	19	50	1x2	1.786	1429
457763	250	3	BK,RD,WE,GN	0.52	22	60	1x2	1.745	1335
457765	250	3	BK,RD,WE,GN	0.52	22	60	1x1	1.771	1367
556793	250	4	BK,RD,BE,WE	0.52	22	60	1x3/0	1.962	1792
592913	250	4	BK,RD,BE,WE,GN	0.52	22	60	1x1/0	1.978	1781
640733	250	4	BK,RD,BE,WE,GN	0.52	22	60	1x1	1.96	1732
457787	300	3	BK,RD,WE,GN	0.57	21	60	1x2	1.842	1521
457785	300	3	BK,RD,WE,GN	0.57	21	60	1x1	1.868	1553
457793	350	3	BK,RD,WE,GN	0.616	35	60	1x1	1.956	1727
457795	350	3	BK,RD,WE,GN	0.616	35	60	1x1/0	1.974	1756
457797	350	3	BK,RD,WE,GN	0.616	35	60	1x4/0	2.042	1886
561285	350	4	BK,RD,BE,WE	0.616	35	60	1x4/0	2.2	2320
598035	350	4	BK,RD,BE,WE,GN	0.616	35	60	1x1/0	2.19	2262
457799	400	3	BK,RD,WE,GN	0.659	35	60	1x1	2.039	1904
457801	400	3	BK,RD,WE,GN	0.659	35	60	1x3/0	2.1	2011
584023	400	3	BK,RD,WE	0.659	35	60	1x3/0	2.041	1944
457817	500	3	BK,RD,WE,GN	0.736	34	60	1x1	2.188	2251
457815	500	3	BK,RD,WE,GN	0.736	34	60	1x2/0	2.225	2314
564987	500	4	BK,RD,BE,WE	0.736	34	60	1x2/0	2.416	2926
457779	600	3	BK,RD,WE,GN	0.813	58	70	1x400	2.549	3097
456881	600	3	BK,RD,WE,GN	0.813	58	70	1x1/0	2.385	2683
552543	600	4	BK,RD,BE,WE	0.813	58	70	1x250	2.688	3634
456858	750	3	BK,RD,WE,GN	0.908	53	70	1x750	2.88	3981
561262	750	4	BK,RD,BE,WE,	0.908	53	70	1x600	3.059	4658
139021	1/0	4	BK,RD,BE,WE,GN	0.336	10	50	1x4	1.432	849
457725	2/0	4	BK,RD,WE,BE,GN	0.376	12	50	1x4	1.54	1036
456822	3/0	4	BK,RD,BE,WE	0.423	16	50	1x4	1.644	1196
456820	3/0	4	BK,RD,BE,WE,GN	0.423	16	50	1x1/0	1.715	1290

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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
457775	250	4	BK,RD,BE,WE,GN	0.52	22	60	1x2/0	1.998	1815
457773	250	4	BK,RD,BE,WE,GN	0.52	22	60	1x3/0	2.021	1859
457791	300	4	BK,RD,BE,WE,GN	0.57	21	60	1x1/0	2.089	1992
456844	350	4	BK,RD,BE,WE,GN	0.616	35	60	1x3/0	2.233	2341
456846	350	4	BK,RD,BE,WE,GN	0.616	35	60	1x4/0	2.259	2393
457805	400	4	BK,RD,BE,WE,GN	0.659	35	60	1x350	2.434	2803
457803	400	4	BK,RD,BE,WE,GN	0.659	35	60	1x3/0	2.328	2574
457807	400	4	BK,RD,BE,WE,GN	0.659	35	60	1x4/0	2.353	2625
457831	500	4	BK,RD,BE,WE,GN	0.736	34	60	1x350	2.604	3261
457829	500	4	BK,RD,BE,WE,GN	0.736	34	60	1x3/0	2.498	3031
457825	500	4	BK,RD,BE,WE,GN	0.736	34	60	1x2/0	2.475	2987
457813	500	4	BK,RD,BE,WE,GN	0.736	34	60	1x250	2.556	3143
456865	600	4	BK,RD,BE,WE,GN	0.813	58	70	1x3/0	2.699	3569
456867	600	4	BK,RD,BE,WE,GN	0.813	58	70	1x600	2.912	4107
456869	600	4	BK,RD,BE,WE,GN	0.813	58	70	1x4/0	2.725	3621
456871	600	4	BK,RD,BE,WE,GN	0.813	58	70	1x400	2.826	3858
456873	600	4	BK,RD,BE,WE,GN	0.813	58	70	1x250	2.757	3681
456875	600	4	BK,RD,BE,WE,GN	0.813	58	70	1x350	2.805	3799
456854	750	4	BK,RD,BE,WE,GN	0.908	53	70	1x3/0	2.926	4280
456852	750	4	BK,RD,BE,WE,GN	0.908	53	70	1x350	3.032	4509
456850	750	4	BK,RD,BE,WE,GN	0.908	53	70	1x400	3.053	4569
456848	750	4	BK,RD,BE,WE,GN	0.908	53	70	1x600	3.14	4817

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
Note: Conductor number = number of phase conductors. Does not include green ground.

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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	9.1	1900	0.167	0.208	0.044	120	135
1/0	3	9.3	1900	0.167	0.208	0.044	120	135
1/0	3	11	1900	0.167	0.208	0.044	120	135
2/0	3	9.7	2395	0.133	0.166	0.043	135	150
2/0	3	9.8	2395	0.133	0.166	0.043	135	150
2/0	3	9.2	2395	0.133	0.166	0.043	135	150
3/0	3	11.1	3020	0.105	0.131	0.042	155	175
3/0	3	10.5	3020	0.105	0.131	0.042	155	175
3/0	3	10.4	3020	0.105	0.131	0.042	155	175
4/0	3	11.1	3808	0.084	0.105	0.041	180	205
4/0	3	11.3	3808	0.084	0.105	0.041	180	205
4/0	3	11.5	3808	0.084	0.105	0.041	180	205
4/0	4	12.5	5078	0.084	0.105	0.041	144	164
250	3	12.2	4500	0.07	0.087	0.041	205	230
250	3	12.4	4500	0.07	0.087	0.041	205	230
250	4	13.7	6000	0.07	0.087	0.041	164	184
250	4	13.8	6000	0.07	0.087	0.041	164	184
250	4	13.7	6000	0.07	0.087	0.041	164	184
300	3	12.9	5400	0.059	0.074	0.041	230	260
300	3	13.1	5400	0.059	0.074	0.041	230	260
350	3	13.7	6300	0.051	0.064	0.04	250	280
350	3	13.8	6300	0.051	0.064	0.04	250	280
350	3	14.3	6300	0.051	0.064	0.04	250	280
350	4	15.4	8400	0.051	0.064	0.04	200	224
350	4	15.3	8400	0.051	0.064	0.04	200	224
400	3	14.3	7200	0.044	0.055	0.04	270	305
400	3	14.7	7200	0.044	0.055	0.04	270	305
400	3	14.3	7200	0.044	0.055	0.04	270	305
500	3	15.3	9000	0.036	0.045	0.039	310	350
500	3	15.6	9000	0.036	0.045	0.039	310	350
500	4	16.9	12000	0.036	0.045	0.039	248	280
600	3	17.8	10800	0.03	0.038	0.039	340	385
600	3	16.7	10800	0.03	0.038	0.039	340	385
600	4	18.8	14400	0.03	0.038	0.039	272	308
750	3	20.2	13500	0.023	0.03	0.038	385	435
750	4	21.4	18000	0.023	0.03	0.038	308	348
1/0	4	10	2534	0.167	0.208	0.044	96	108
2/0	4	10.8	3194	0.133	0.166	0.043	108	120
3/0	4	11.5	4027	0.105	0.131	0.042	124	140
3/0	4	12	4027	0.105	0.131	0.042	124	140

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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
250	4	14	6000	0.07	0.087	0.041	164	184
250	4	14.1	6000	0.07	0.087	0.041	164	184
300	4	14.6	7200	0.059	0.074	0.041	184	208
350	4	15.6	8400	0.051	0.064	0.04	200	224
350	4	15.8	8400	0.051	0.064	0.04	200	224
400	4	17	9600	0.044	0.055	0.04	216	244
400	4	16.3	9600	0.044	0.055	0.04	216	244
400	4	16.5	9600	0.044	0.055	0.04	216	244
500	4	18.2	12000	0.036	0.045	0.039	248	280
500	4	17.5	12000	0.036	0.045	0.039	248	280
500	4	17.3	12000	0.036	0.045	0.039	248	280
500	4	17.9	12000	0.036	0.045	0.039	248	280
600	4	18.9	14400	0.03	0.038	0.039	272	308
600	4	20.4	14400	0.03	0.038	0.039	272	308
600	4	19.1	14400	0.03	0.038	0.039	272	308
600	4	19.8	14400	0.03	0.038	0.039	272	308
600	4	19.3	14400	0.03	0.038	0.039	272	308
600	4	19.6	14400	0.03	0.038	0.039	272	308
750	4	20.5	18000	0.023	0.03	0.038	308	348
750	4	21.2	18000	0.023	0.03	0.038	308	348
750	4	21.4	18000	0.023	0.03	0.038	308	348
750	4	22	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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