Armorlite® Type MC XHHW-2 Aluminum Conductor Feeder Cable. Rated 600 or 1000 Volts. Silicone Free

Aluminum XHHW-2 Insulated Singles with 8000 series Triple E™ Aluminum Alloy. Bare AlumaFlex™ Aluminum Alloy Grounding Conductor. UL Listed. 600 or 1000 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor.

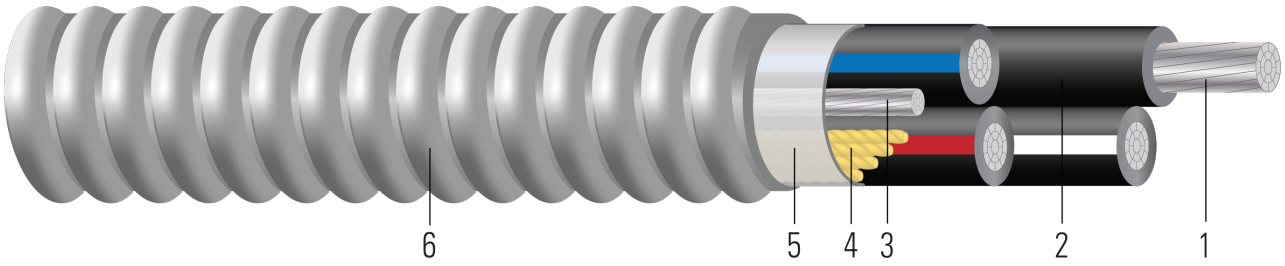

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compact stranded 8000 Series aluminum per ASTM B800 and ASTM B801
2. **Insulation:** All phases are insulated with Cross Linked Polyethylene XLPE Type XHHW-2
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.
- Environmental air-handling spaces per NEC 300.22 (C).
- Places of Assembly per NEC 518.4 and theaters per NEC 520.5.
- Installation in cable tray and approved raceways.
- 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.
- Binder tape with print legend wrapped around assembly.
- Type XHHW-2 rated 90ºC Wet and Dry
- Per NEC (330.10), unjacketed MC cable can be used in dry location

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

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- UL 44 Thermoset-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-2 (European Directive 2011/65/EU)
- 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 XHHW-2 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
890092◊	6	3	BK,BK/RD,BK/ WE	0.169	7	45	1x6	0.844	242
600742◊	4	3	BK,BK/RD,BK/ WE	0.213	7	45	1x6	1.01	333
557199◊	2	3	BK,BK/RD,BK/ WE	0.268	6	45	1x4	1.056	430
558064◊	1	3	BK,BK/RD,BK/ WE	0.299	8	55	1x4	1.163	523
641793◊	1/0	3	BK,BK/RD,BK/ WE	0.336	10	55	1x4	1.261	610
641798◊	3/0	3	BK,BK/RD,BK/ WE	0.423	15	55	1x4	1.449	838
641800◊	4/0	3	BK,BK/RD,BK/ WE	0.475	19	55	1x2	1.582	1077
641802◊	250	3	BK,BK/RD,BK/ WE	0.52	22	65	1x2	1.718	1248
641805◊	300	3	BK,BK/RD,BK/ WE	0.57	21	65	1x2	1.826	1428
641807◊	350	3	BK,BK/RD,BK/ WE	0.616	35	65	1x2	1.925	1603
643393◊	400	3	BK,BK/RD,BK/ WE	0.659	35	65	1x1	2.018	1794
643396◊	500	3	BK,BK/RD,BK/ WE	0.736	34	65	1x1	2.184	2136
643398◊	750	3	BK,BK/RD,BK/ WE	0.908	58	80	1x1/0	2.625	3083
611203◊	6	4	BK,BK/RD,BK/ BE,BK/WE	0.169	7	45	1x6	0.928	294
608364◊	4	4	BK,BK/RD,BK/ BE,BK/WE	0.213	7	45	1x6	1.036	382
557249◊	2	4	BK,BK/RD,BK/ BE,BK/WE	0.268	6	45	1x4	1.169	545
559963◊	1	4	BK,BK/RD,BK/ BE,BK/WE	0.299	8	55	1x4	1.296	667
641724◊	2/0	4	BK,BK/RD,BK/ BE,BK/WE	0.376	12	55	1x4	1.477	916
641730◊	3/0	4	BK,BK/RD,BK/ BE,BK/WE	0.423	15	55	1x4	1.608	1150
641736◊	4/0	4	BK,BK/RD,BK/ BE,BK/WE	0.475	19	55	1x2	1.742	1391
641743◊	250	4	BK,BK/RD,BK/ BE,BK/WE	0.52	22	65	1x1	1.897	1631
641750◊	300	4	BK,BK/RD,BK/ BE,BK/WE	0.57	21	65	1x1	2.007	1871
641757◊	350	4	BK,BK/RD,BK/ BE,BK/WE	0.616	35	65	1x1/0	2.127	2124
641764◊	400	4	BK,BK/RD,BK/ BE,BK/WE	0.659	35	65	1x1/0	2.222	2351

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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
641770◊	500	4	BK,BK/RD,BK/ BE,BK/WE	0.736	34	65	1x2/0	2.411	2828
641776◊	750	4	BK,BK/RD,BK/ BE,BK/WE	0.908	58	80	1x3/0	2.899	4110

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
GG - Green Ground
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.

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
6	3	5.9	472	0.674	0.84	0.051	50	55
4	3	7.1	751	0.424	0.528	0.048	65	75
2	3	7.4	1194	0.266	0.331	0.045	90	100
1	3	8.1	1506	0.211	0.263	0.046	100	115
1/0	3	8.8	1900	0.167	0.208	0.044	120	135
3/0	3	10.1	3020	0.105	0.131	0.042	155	175
4/0	3	11.1	3808	0.084	0.105	0.041	180	205
250	3	12	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	14.1	7200	0.044	0.055	0.04	270	305
500	3	15.3	9000	0.036	0.045	0.039	310	350
750	3	18.4	13500	0.023	0.03	0.038	385	435
6	4	6.5	629	0.674	0.84	0.051	40	44
4	4	7.3	1001	0.424	0.528	0.048	52	60
2	4	8.2	1592	0.266	0.331	0.045	72	80
1	4	9.1	2008	0.211	0.263	0.046	80	92
2/0	4	10.3	3194	0.133	0.166	0.043	108	120
3/0	4	11.3	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	7200	0.059	0.074	0.041	184	208
350	4	14.9	8400	0.051	0.064	0.04	200	224
400	4	15.6	9600	0.044	0.055	0.04	216	244
500	4	16.9	12000	0.036	0.045	0.039	248	280
750	4	20.3	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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