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.

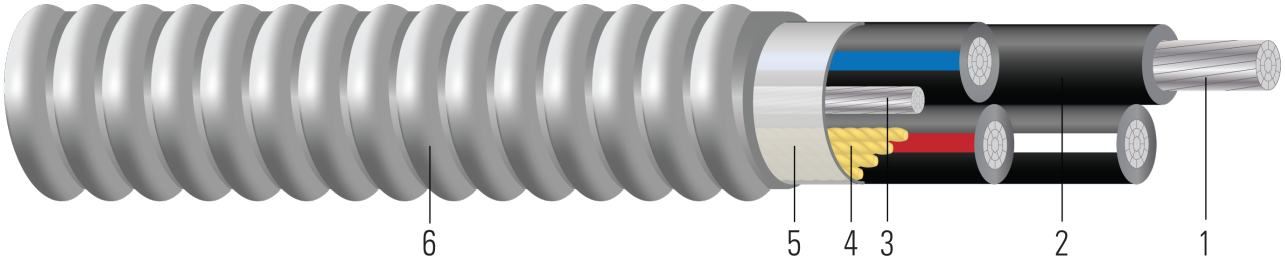


Image not to scale. See Table 1 for dimensions.

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	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	0.169	7	45	1x6	0.844	244
600742◊	4	3	0.212	7	45	1x6	0.956	314
557199◊	2	3	0.268	6	45	1x4	1.082	417
558064◊	1	3	0.298	8	55	1x4	1.101	490
641793◊	1/0	3	0.336	10	55	1x4	1.154	569
678727◊	1/0	3	0.336	10	55	1x6 GG CU	1.283	656
564886◊	2/0	3	0.376	12	55	1x4 GG	1.405	711
678731◊	2/0	3	0.376	12	55	1x6 GG CU	1.294	727
641798◊	3/0	3	0.422	15	55	1x4	1.311	786
641800◊	4/0	3	0.474	19	55	1x2	1.538	1037
641802◊	250	3	0.520	22	65	1x2	1.656	1203
641805◊	300	3	0.569	35	65	1x2	1.747	1377
641807◊	350	3	0.615	35	65	1x2	1.830	1549
643393◊	400	3	0.659	35	65	1x1	1.926	1738
641764◊	400	4	0.659	35	65	1x1/0	2.203	2332
643396◊	500	3	0.735	35	65	1x1	2.066	2072
643398◊	750	3	0.908	58	80	1x1/0	2.454	2996
611203◊	6	4	0.169	7	45	1x6	0.925	295
608364◊	4	4	0.212	7	45	1x6	1.036	382
557249◊	2	4	0.268	6	45	1x4	1.184	530
559963◊	1	4	0.298	8	55	1x4	1.322	646
641724◊	2/0	4	0.376	12	55	1x4	1.382	874
641730◊	3/0	4	0.422	15	55	1x4	1.584	1112
641736◊	4/0	4	0.474	19	55	1x2	1.726	1356
641743◊	250	4	0.520	22	65	1x1	1.883	1600
641750◊	300	4	0.569	35	65	1x1	1.991	1840
641757◊	350	4	0.615	35	65	1x1/0	2.110	2091
641770◊	500	4	0.735	35	65	1x2/0	2.391	2805
671779◊	500	4	0.735	35	65	1x2/0 GG	2.495	2861
641776◊	750	4	0.908	58	80	1x3/0	2.853	4096
677592◊	1000	4	1.060	61	80	1x600	3.563	5659

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

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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 60°C	Allowable Ampacity Raceway 75°C	Allowable Ampacity Raceway 90°C
AWG/ Kcmil		Inches	Lbs	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp	Amp
6	3	5.9	472	0.674	0.812	0.051	40	50	55
4	3	6.7	751	0.424	0.510	0.048	55	65	75
2	3	7.6	1194	0.267	0.321	0.045	75	90	100
1	3	7.7	1506	0.211	0.254	0.046	85	100	115
1/0	3	8.1	1900	0.168	0.201	0.044	100	120	135
1/0	3	9.0	1900	0.168	0.201	0.044	100	120	135
2/0	3	9.8	2395	0.133	0.160	0.043	115	135	150
2/0	3	9.1	2395	0.133	0.160	0.043	115	135	150
3/0	3	9.2	3020	0.105	0.126	0.042	130	155	175
4/0	3	10.8	3808	0.084	0.100	0.041	150	180	205
250	3	11.6	4500	0.071	0.086	0.041	170	205	230
300	3	12.2	5400	0.059	0.071	0.041	195	230	260
350	3	12.8	6300	0.050	0.062	0.040	210	250	280
400	3	13.5	7200	0.044	0.054	0.040	225	270	305
400	4	15.4	7680	0.044	0.054	0.040	180	216	244
500	3	14.5	9000	0.035	0.044	0.039	260	310	350
750	3	17.2	13500	0.024	0.031	0.038	320	385	435
6	4	6.5	503	0.674	0.812	0.051	32	40	44
4	4	7.3	801	0.424	0.510	0.048	44	52	60
2	4	8.3	1274	0.267	0.321	0.045	60	72	80
1	4	9.3	1606	0.211	0.254	0.046	68	80	92
2/0	4	9.7	2555	0.133	0.160	0.043	92	108	120
3/0	4	11.1	3221	0.105	0.126	0.042	104	124	140
4/0	4	12.1	4062	0.084	0.100	0.041	120	144	164
250	4	13.2	4800	0.071	0.086	0.041	136	164	184
300	4	13.9	5760	0.059	0.071	0.041	156	184	208
350	4	14.8	6720	0.050	0.062	0.040	168	200	224
500	4	16.7	9600	0.035	0.044	0.039	208	248	280
500	4	17.5	9600	0.035	0.044	0.039	208	248	280
750	4	20.0	14400	0.024	0.031	0.038	256	308	348
1000	4	24.9	19200	0.018	0.025	0.037	300	356	400

* 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.