

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.

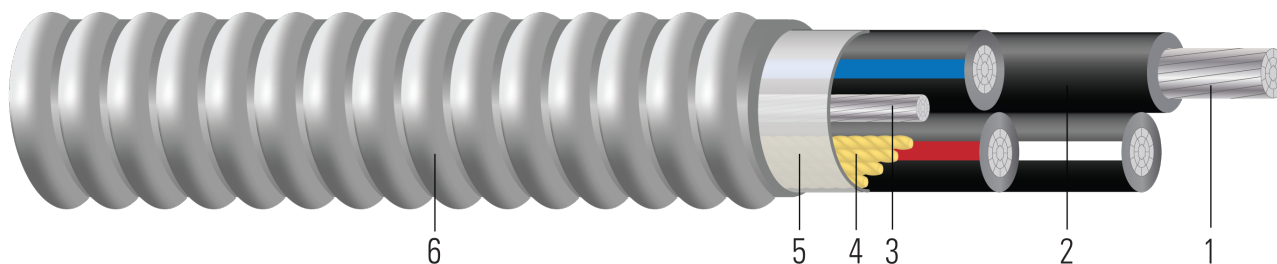


Image not to scale. See Table 1 for dimensions.

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 90°C 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



Southwire Company, LLC | One Southwire Drive, Carrollton, GA 30119 | www.southwire.com



Southwire

**CABLETECH
SUPPORT™**

Services

- 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
- 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.
- REACH - European Community Regulation

SAMPLE PRINT LEGEND:

E96627 {UL} TYPE MC AWG XX XHHW-2 CDRS FOR USE IN CABLE TRAYS 600 VOLTS



Table 1 – Weights and Measurements

Stock Number	Cond. Size	Conductor Number	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Ground Size x Num	Diameter Over Armor	Overall Weight
	AWG/ Kcmil		inch		mils	No. x AWG	inch	lbs/1000ft
890092◇	6	3	0.169	7	45	1x6	0.798	231
600742◇	4	3	0.212	7	45	1x6	0.956	314
557199◇	2	3	0.268	7	45	1x4	1.082	417
558064◇	1	3	0.298	19	55	1x4	1.101	490
641793◇	1/0	3	0.336	19	55	1x4	1.154	569
678727◇	1/0	3	0.336	19	55	1x6	1.244	632
564886◇	2/0	3	0.376	19	55	1x4 GG	1.406	711
678731◇	2/0	3	0.376	19	55	1x6	1.294	727
641798◇	3/0	3	0.422	19	55	1x4	1.311	786
641800◇	4/0	3	0.474	19	55	1x2	1.539	1037
641802◇	250	3	0.52	37	65	1x2	1.656	1204
641805◇	300	3	0.569	37	65	1x2	1.747	1377
641807◇	350	3	0.615	37	65	1x2	1.83	1550
643393◇	400	3	0.659	37	65	1x1	1.927	1739
641764◇	400	4	0.659	37	65	1x1/0	2.204	2333
643396◇	500	3	0.735	37	65	1x1	2.066	2073
643398◇	750	3	0.908	61	80	1x1/0	2.454	2996
611203◇	6	4	0.169	7	45	1x6	0.920	292
608364◇	4	4	0.212	7	45	1x6	1.036	382
557249◇	2	4	0.268	7	45	1x4	1.185	530
559963◇	1	4	0.298	19	55	1x4	1.322	646
641724◇	2/0	4	0.376	19	55	1x4	1.383	874
641730◇	3/0	4	0.422	19	55	1x4	1.584	1113
641736◇	4/0	4	0.474	19	55	1x2	1.726	1357
641743◇	250	4	0.52	37	65	1x1	1.884	1600
641750◇	300	4	0.569	37	65	1x1	1.992	1840
641757◇	350	4	0.615	37	65	1x1/0	2.112	2092
641770◇	500	4	0.735	37	65	1x2/0	2.392	2805
671779◇	500	4	0.735	37	65	1x2/0 GG	2.525	2864
641776◇	750	4	0.908	61	80	1x3/0	2.853	4096
677592◇	1000	4	1.06	61	80	1x600	3.563	5960

All dimensions are nominal and subject to normal manufacturing tolerances

◇ Cable marked with this symbol is a standard stock item

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



Table 2 – Electrical and Engineering Data

Stock Number	Cond. Size	Min. Bend Radius	Max Pull Tension	DC Resistance at 25°C	AC Resistance at 75°C	Allowable Ampacity Raceway 60°C [†]	Allowable Ampacity Raceway 75°C [†]	Allowable Ampacity Raceway 90°C [†]
	AWG/Kcmil	Inches	Lbs	Ω/1000ft	Ω/1000ft	Amp	Amp	Amp
8900920	6	5.5	472	0.674	0.812	40	50	55
6007420	4	6.6	751	0.424	0.51	55	65	75
5571990	2	7.5	1194	0.267	0.321	75	90	100
5580640	1	7.7	1506	0.211	0.254	85	100	115
6417930	1/0	8.0	1900	0.168	0.201	100	120	135
6787270	1/0	8.7	1900	0.168	0.201	100	120	135
5648860	2/0	9.8	2395	0.133	0.16	115	135	150
6787310	2/0	9.0	2395	0.133	0.16	115	135	150
6417980	3/0	9.1	3020	0.105	0.126	130	155	175
6418000	4/0	10.7	3808	0.084	0.100	150	180	205
6418020	250	11.5	4500	0.071	0.086	170	205	230
6418050	300	12.2	5400	0.059	0.071	195	230	260
6418070	350	12.8	6300	0.05	0.062	210	250	280
6433930	400	13.4	7200	0.044	0.054	225	270	305
6417640	400	15.4	9600	0.044	0.054	180	216	244
6433960	500	14.4	9000	0.035	0.044	260	310	350
6433980	750	17.1	13500	0.024	0.031	320	385	435
6112030	6	6.4	629	0.674	0.812	32	40	44
6083640	4	7.2	1001	0.424	0.51	44	52	60
5572490	2	8.2	1592	0.267	0.321	60	72	80
5599630	1	9.2	2008	0.211	0.254	68	80	92
6417240	2/0	9.6	3194	0.133	0.16	92	108	120
6417300	3/0	11	4027	0.105	0.126	104	124	140
6417360	4/0	12	5078	0.084	0.100	120	144	164
6417430	250	13.1	6000	0.071	0.086	136	164	184
6417500	300	13.9	7200	0.059	0.071	156	184	208
6417570	350	14.7	8400	0.05	0.062	168	200	224
6417700	500	16.7	12000	0.035	0.044	208	248	280
6717790	500	17.6	12000	0.035	0.044	208	248	280
6417760	750	19.9	18000	0.024	0.031	256	308	348
6775920	1000	24.9	24000	0.018	0.025	300	356	400

[†] Ampacities have been adjusted for more than Three Current-Carrying Conductors

[†] Ampacities based upon 2023 NEC Table 310.16. Also, see NEC sections 310.15 and 110.14(C) for additional requirements.

