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. UL Listed 600 or 1000 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor.

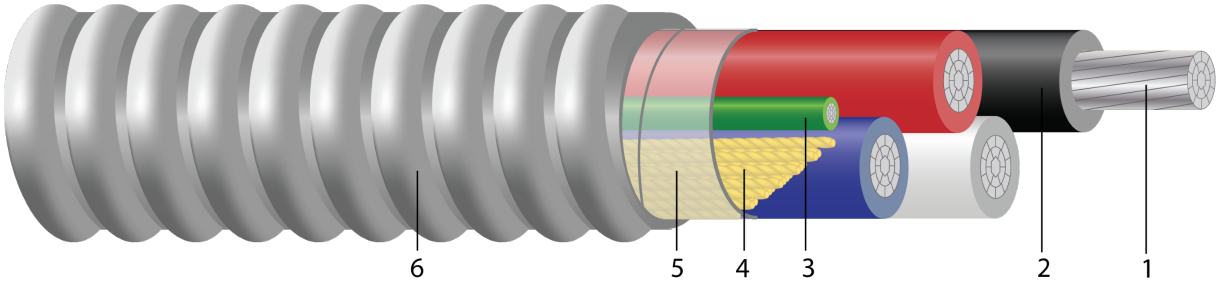

Image not to scale. See Table 1 for dimensions.

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 Type XHHW-2
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 XHHW-2 rated 90ºC Dry/ 90ºC 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 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.

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
641786	6	3	BK,BK/RD,BK/WE	0.169	7	45	1x6	0.839	242
641791	2	3	BK,BK/RD/BK/WE	0.268	6	45	1x6	1.029	411
678727◊	1/0	3	BK,RD,WE,GN	0.336	10	55	1x6 CU	1.283	656
457717◊	1/0	3	BK,RD,WE,GN	0.336	10	55	1x4	1.304	631
641717	1/0	4	BK,BK/RD,BK/ BE,BK/WE	0.336	10	55	1x4	1.388	777
678731◊	2/0	3	BK,RD,WE,GN	0.376	12	55	1x6 CU	1.294	727
564886◊	2/0	3	BK,RD,WE,GN	0.376	12	55	1x4	1.405	711
671779◊	500	4	BN,OE,YW,GY	0.736	12	70	1x2/0	2.471	2877
TBA◊	500	4	BN,OE,YW,GY	0.736	12	70	1x3/0	2.588	2903

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.

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	0.812	0.051	50	55
2	3	7.2	1194	0.267	0.321	0.045	90	100
1/0	3	9.0	1900	0.168	0.201	0.044	120	135
1/0	3	9.1	1900	0.168	0.201	0.044	120	135
1/0	4	9.7	2027	0.168	0.201	0.044	96	108
2/0	3	9.1	2395	0.133	0.160	0.043	135	150
2/0	3	9.8	2395	0.133	0.160	0.043	135	150
500	4	17.3	12000	0.035	0.044	0.039	248	280
500	4	17.3	12000	0.035	0.044	0.039	248	280

***** 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.