Armorlite® Type MC XHHW-2 PVC Jacketed 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 with Overall PVC Jacket Sunlight Resistant.

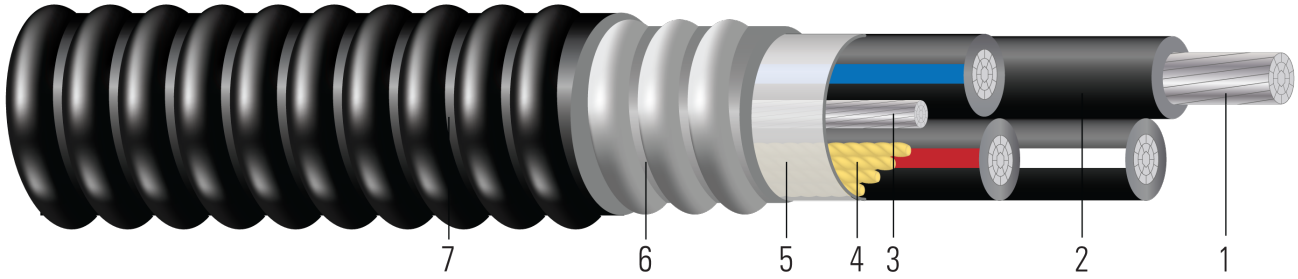


Image not to scale. See Table 1 for dimensions.

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
7. **Jacket:** Polyvinyl Chloride (PVC) sunlight resistant, and corrosion resistant

APPLICATIONS AND FEATURES:

Southwire Armorlite® Type MC Feeder cable is suitable for use as follows:

- Branch, feeder and service power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Where exposed to cinder fills, strong chlorides, caustic alkalis, or vapors of chlorine or of hydrochloric acids.
- Fished or embedded in plaster.
- Concealed or exposed installations.
- Suitable for Wet Location per NEC 330.10(A)(11)
- Places of Assembly per NEC 518.4 and theaters per NEC 520.5.
- 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 90°C Dry/Wet Locations

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

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UPDATED: Dec. 11, 2023, 9:29 p.m.UTC REVISION: 1.000.008

- 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
- RoHS Compliant Lead-Free, Silicone-Free
- 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:

{SQFTG} SOUTHWIRE {UL} 4/C XX AWG COMPACT AL. --- {ALUMAFLEX}® AA8176 XHHW-2 CDRS GW 1 X X AWG AL TYPE MC FOR USE IN CABLE TRAYS 600V/1000V

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Conductor Number	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Ground Size	Diameter Over Armor	Jacket Thickness	Approx. OD	Overall Weight
	AWG/ Kcmil		inch		mils	No. x AWG	inch	mil	inch	lbs/1000ft
559694◊	6	3	0.169	7	45	1x6	0.844	50	0.950	336
554013◊	4	3	0.212	7	45	1x6	0.956	50	1.056	411
554280◊	2	3	0.268	6	45	1x4	1.082	50	1.182	526
554281◊	1	3	0.298	8	55	1x4	1.101	50	1.201	601
560781◊	4	4	0.212	7	45	1x6	1.036	50	1.136	483
560780◊	2	4	0.268	6	45	1x4	1.184	50	1.284	644
552595◊	1	4	0.298	8	55	1x4	1.322	55	1.432	786
599049◊	2/0	4	0.376	12	55	1x4	1.405	55	1.515	1002
599056◊	4/0	4	0.474	19	55	1x2	1.730	65	1.862	1533

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

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	6.7	472	0.674	0.812	0.051	40	50	55
4	3	7.4	751	0.424	0.510	0.048	55	65	75
2	3	8.3	1194	0.267	0.321	0.045	75	90	100
1	3	8.4	1506	0.211	0.254	0.046	85	100	115
4	4	8.0	801	0.424	0.510	0.048	44	52	60
2	4	9.0	1274	0.267	0.321	0.045	60	72	80
1	4	10.0	1606	0.211	0.254	0.046	68	80	92
2/0	4	10.6	2555	0.133	0.160	0.043	92	108	120
4/0	4	13.0	4062	0.084	0.100	0.041	120	144	164

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* 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.