

AlumaFlex™

Type MC-XHHW-2 PVC Jacketed



6 AWG through 900 kcmil XHHW-2 Insulated Singles with 8000 Series Triple E™ Aluminum Alloy. Bare AlumaFlex™ Aluminum Alloy Grounding Conductor. UL Listed. 600 Volts. Lightweight Aluminum Interlocked Armor with Overall PVC Jacket.

APPLICATIONS

Suitable for use as follows:

- Suitable for Wet Location per NEC 330.10(11)
- Direct burial applications, installation in concrete and where exposed to cinder fills, strong chlorides, caustic alkalis, or vapors of chlorine or of hydrochloric acids.
- Branch, feeder and service power distribution under high ambient temperatures in commercial, industrial, institutional, and multi-residential buildings.
- Power, lighting, control, and signal circuits.
- Fished or embedded in plaster.
- Concealed or exposed installations
- Places of Assembly per NEC 518.4 and theaters per NEC 520.5.
- As aerial cable on a messenger.
- Installation in cable tray and approved raceways.
- Under raised floors for information technology equipment conductors and cables per NEC 645.5(D) & 645.5(D)(2).
- Class I Div. 2, Class II Div 2, & Class III Div. 1 Hazardous Locations.

STANDARDS & REFERENCES

Southwire AlumaFlex™ Type MC-XHHW-2 Cable - PVC Jacketed meets or exceeds the requirements:

- UL 44
- UL 1569
- UL Online Product Guide Info - Metal-Clad Cable (PJAZ) (www.ul.com)
- ICEA S-95-658 (NEMA WC70)
- Federal Specification A-A59544 (formerly J-C-30B)
- IEEE 1202 (70,000 Btu/hr) Vertical Cable Tray Flame Test
- NFPA 70 (National Electrical Code), Article 330
- Listed for use in UL 1, 2, and 3 Hour Through-Penetration Firestop Systems
- REACH/RoHS-2 (Chemical Limit) Compliant



CONSTRUCTION

Southwire AlumaFlex™ Type MC-XHHW-2 Cable with Triple E™ Aluminum Alloy with PVC jacket is constructed with Type XHHW-2 conductors rated 90°C wet or dry, and a bare equipment grounding conductor. Conductors are AlumaFlex™ AA-8000 series aluminum alloy compact stranded. A binder tape is wrapped over the conductors. Aluminum interlocking armor is applied over the assembly. A PVC Jacket is applied over the armor.

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CONDUCTOR SIZE AND COLORS	GROUNDING SIZE AND COLOR	STOCK NUMBER	WEIGHT (LBS/1000')	OVERALL DIAMETER (INCHES)
SOLID CONDUCTOR COLORS 120/208V				
6-3 STRANDED XHHW (BLACK/BLACK-WHITE/BLACK-RED)	6 STRANDED (BARE)	55-96-94-99	305	.884
6-4 STRANDED XHHW (BLACK/BLACK-BLUE/BLACK-WHITE/BLACK-RED)	6 STRANDED (BARE)	56-07-78-99	372	.951
4-3 STRANDED XHHW (BLACK/BLACK-WHITE/BLACK-RED)	6 STRANDED (BARE)	55-40-13-99	395	1.056
4-4 STRANDED XHHW (BLACK/BLACK-BLUE/BLACK-WHITE/BLACK-RED)	6 STRANDED (BARE)	56-07-81-99	452	1.049
2-3 STRANDED XHHW (BLACK/BLACK-WHITE/BLACK-RED)	4 STRANDED (BARE)	55-42-80-99	523	1.189
2-4 STRANDED XHHW (BLACK/BLACK-BLUE/BLACK-WHITE/BLACK-RED)	4 STRANDED (BARE)	56-07-80-99	607	1.182
1-3 STRANDED XHHW (BLACK/BLACK-WHITE/BLACK-RED)	4 STRANDED (BARE)	55-42-81-99	594	1.201
1-4 STRANDED XHHW (BLACK/BLACK-BLUE/BLACK-WHITE/BLACK-RED)	4 STRANDED (BARE)	55-25-95-99	735	1.313
For allowable ampacities, refer to NEC 310.15. Available with oversized grounding conductor when used for parallel feeds on special orders. Available in sizes up to 900 MCM				

FEATURES

- UL Classified 1, 2, and 3 hour Through Penetration Firestop Systems: W-J-3037, W-L-3110, W-L-3113, W-L-3117, W-L-3120, W-L-3121, W-L-3160, C-AJ-3115, C-AJ-3140, C-AJ-3142, C-AJ-3145, C-AJ-3173, C-AJ-3202, C-AJ-4065, C-AJ-4066, F-C-3038.
- Cable reverse wound on reel for ease of pulling and installation. When pulling from coils, pull from inside to ensure ease of installation.
- Anti-short bushings are not required for use with MC cable per the NEC and UL

Phase Conductors are Black with Three Extruded Color Stripes

NUMBER OF CONDUCTORS	COLOR SEQUENCE 120/208Y
3	BLACK, RED STRIPED, AND WHITE STRIPED
4	BLACK, RED STRIPED, BLUE STRIPED, AND WHITE STRIPED
GROUNDING CONDUCTOR	BARE

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NEC TABLE 310.15(B)(16)- ALLOWABLE AMPACITY FOR 600V CONDUCTORS

SIZE AWG OR KCMIL	TEMPERATURE RATING OF CONDUCTOR		
	60°C (140°F)	75°C (167°F)	90°C (194°F)
	Types: TW, UF	Types: RHW, THHW, THW, THWN, XHHW, USE, ZW	Types: TBS, SA, SIS, RHH, RHW-2, THHN, THHW, THW- 2, THWN-2, USE-2, XHH, XHHW, XHHW-2, ZW-2
ALUMINUM or COPPER-CLAD ALUMINUM			
18	-	-	-
16	-	-	-
14	-	-	-
12	15	20	25
10	25	30	35
8	35	40	45
6	40	50	55
4	55	65	75
3	65	75	85
2	75	90	100
1	85	100	115
1/0	100	120	135
2/0	115	135	150
3/0	130	155	175
4/0	150	180	205
250	170	205	230
300	195	230	260
350	210	250	280
400	225	270	305
500	260	310	350
600	285	340	385
700	315	375	425
750	320	385	435
800	330	395	445
900	355	425	480
1000	375	445	500
1250	405	485	545
1500	435	520	585
1750	455	545	615
2000	470	560	630

Per NEC 310.15(B)(5), the ampacity of 4/C cables shall be reduced by a factor of 0.80 when the neutral is considered a current-carrying conductor.

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