

# 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)
- Where exposed to strong chlorides, caustic alkalis, or vapors of chlorine or of hydrochloric acid.
- 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](http://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) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------|--------------------|---------------------------|
| <b>SOLID CONDUCTOR COLORS 120/208V</b>                                                                                                                                             |                          |              |                    |                           |
| 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.<br>Available with oversized grounding conductor when used for parallel feeds on special orders.<br>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<br>KCMIL             | TEMPERATURE RATING OF CONDUCTOR |                                                     |                                                                                                      |
|----------------------------------|---------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------|
|                                  | 60°C (140°F)                    | 75°C (167°F)                                        | 90°C (194°F)                                                                                         |
|                                  | Types: TW, UF                   | Types: RHW,<br>THHW, THW,<br>THWN, XHHW,<br>USE, ZW | Types: TBS, SA, SIS, RHH,<br>RHW-2, THHN, THHW, THW-<br>2, THWN-2, USE-2, XHH,<br>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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