# Armorlite® Type MC THHN/THWN Aluminum Conductor Feeder Cable 120/208V Colors

Aluminum THHN/THWN-2 Insulated Singles with 8000 series Triple E™ Aluminum Alloy. Bare AlumaFlex™ Aluminum Alloy Grounding Conductor. UL Listed. 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor.

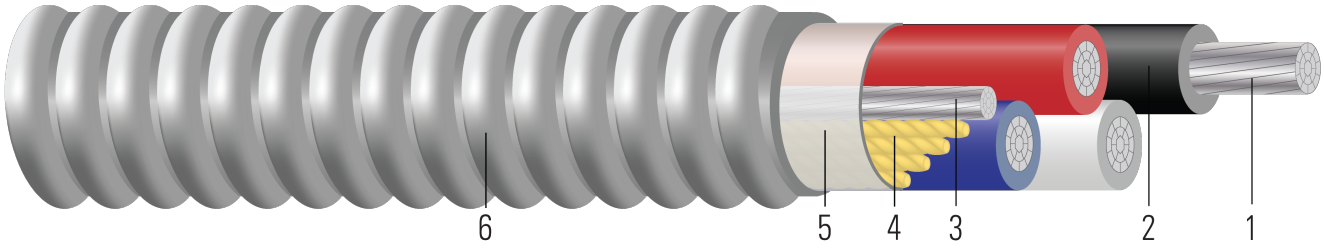


Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Class B compact stranded 8000 Series aluminum per ASTM B800 and ASTM B801
2. **Insulation:** All phases are insulated with Polyvinyl Chloride with Nylon Sheath Type THHN/THWN
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.
- 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 THHN/THWN rated 90ºC Dry/ 75ºC 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

**Color Code** - 3/C: Black, Red, White
- 4/C: Black, Red, Blue, White

## SPECIFICATIONS:

- ASTM B800 8000 Series Aluminum Alloy Wire


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- ASTM B801 Concentric-Lay-Stranded Conductors of 8000 Series Aluminum Alloy
- UL 83 Thermoplastic 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.

## SAMPLE PRINT LEGEND:

E96627 {UL} TYPE MC AWG XX THHN OR THWN CDRS FOR USE IN CABLE TRAYS 600 VOLTS



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## 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 |
| 558759◊ | 1/0 | 3 | BK,RD,WE | 0.336 | 10 | 50 | 1x4 | 1.257 | 635 |
| 557207◊ | 2/0 | 3 | BK,RD,WE | 0.376 | 12 | 50 | 1x4 | 1.343 | 740 |
| 558767◊ | 3/0 | 3 | BK,RD,WE | 0.423 | 16 | 50 | 1x4 | 1.465 | 924 |
| 557215◊ | 4/0 | 3 | BK,RD,WE | 0.475 | 19 | 50 | 1x2 | 1.577 | 1112 |
| 558056◊ | 250 | 3 | BK,RD,WE | 0.52 | 22 | 60 | 1x2 | 1.722 | 1301 |
| 559647◊ | 250 | 3 | BK,RD,WE | 0.52 | 22 | 60 | 1x1 | 1.722 | 1317 |
| 554278◊ | 300 | 3 | BK,RD,WE | 0.57 | 21 | 60 | 1x1 | 1.83 | 1505 |
| 560508◊ | 350 | 3 | BK,RD,WE | 0.616 | 35 | 60 | 1x1 | 1.929 | 1682 |
| 557773◊ | 400 | 3 | BK,RD,WE | 0.659 | 35 | 60 | 1x1 | 2.022 | 1860 |
| 561253◊ | 500 | 3 | BK,RD,WE | 0.736 | 34 | 60 | 1x250 | 2.237 | 2451 |
| 563586◊ | 500 | 3 | BK,RD,WE | 0.736 | 35 | 60 | 1x3/0 | 2.202 | 2259 |
| 554847◊ | 500 | 3 | BK,RD,WE | 0.736 | 34 | 60 | 1x2/0 | 2.188 | 2257 |
| 557223◊ | 500 | 3 | BK,RD,WE | 0.736 | 34 | 60 | 1x1 | 2.184 | 2197 |
| 600759◊ | 600 | 3 | BK,RD,WE | 0.813 | 58 | 70 | 1x1/0 | 2.385 | 2638 |
| 563608◊ | 600 | 3 | BK,RD,WE | 0.813 | 58 | 70 | 1x400 | 2.48 | 2982 |
| 557231◊ | 750 | 3 | BK,RD,WE | 0.908 | 53 | 70 | 1x1/0 | 2.608 | 3160 |
| 554849◊ | 750 | 3 | BK,RD,WE | 0.908 | 53 | 70 | 1x3/0 | 2.608 | 3219 |
| 605287◊ | 1/0 | 4 | BK,RD,BE,WE | 0.336 | 10 | 50 | 1x4 | 1.384 | 811 |
| 557256◊ | 2/0 | 4 | BK,RD,BE,WE | 0.376 | 12 | 50 | 1x4 | 1.472 | 954 |
| 605295◊ | 3/0 | 4 | BK,RD,BE,WE | 0.423 | 16 | 50 | 1x4 | 1.603 | 1191 |
| 557264◊ | 4/0 | 4 | BK,RD,BE,WE | 0.475 | 19 | 50 | 1x2 | 1.738 | 1439 |
| 607069◊ | 250 | 4 | BK,RD,BE,WE | 0.52 | 22 | 60 | 1x1 | 1.901 | 1701 |
| 607978◊ | 300 | 4 | BK,RD,BE,WE | 0.57 | 21 | 60 | 1x1 | 2.011 | 1952 |
| 584740◊ | 300 | 4 | BK,RD,BE,WE | 0.57 | 21 | 60 | 1x1/0 | 2.03 | 1936 |
| 647436◊ | 350 | 4 | BK,RD,BE,WE | 0.616 | 35 | 60 | 1x3/0 | 2.174 | 2273 |
| 607077◊ | 350 | 4 | BK,RD,BE,WE | 0.616 | 35 | 60 | 1x1/0 | 2.131 | 2206 |
| 597447◊ | 400 | 4 | BK,WE,RD,BE | 0.659 | 35 | 60 | 1x4/0 | 2.295 | 2585 |
| 555117◊ | 400 | 4 | BK,RD,BE,WE | 0.659 | 35 | 60 | 1x3/0 | 2.269 | 2506 |
| 556194◊ | 500 | 4 | BK,RD,BE,WE | 0.736 | 34 | 60 | 1x4/0 | 2.465 | 3043 |
| 607085◊ | 500 | 4 | BK,RD,BE,WE | 0.736 | 34 | 60 | 1x3/0 | 2.435 | 2949 |
| 552747◊ | 500 | 4 | BK,RD,BE,WE | 0.736 | 34 | 60 | 1x250 | 2.487 | 3050 |
| 607093◊ | 600 | 4 | BK,RD,BE,WE | 0.813 | 58 | 70 | 1x3/0 | 2.64 | 3502 |
| 552483◊ | 600 | 4 | BK,RD,BE,WE | 0.813 | 58 | 70 | 1x400 | 2.756 | 3744 |
| 561602◊ | 750 | 4 | BK,RD,BE,WE | 0.908 | 53 | 70 | 1x750 | 3.106 | 4809 |
| 607101◊ | 750 | 4 | BK,RD,BE,WE | 0.908 | 53 | 70 | 1x3/0 | 2.88 | 4215 |
| 552746◊ | 750 | 4 | BK,RD,BE,WE | 0.908 | 53 | 70 | 1x4/0 | 2.893 | 4259 |
| 559833◊ | 900 | 4 | BK,RD,BE,WE | 0.999 | 56 | 70 | 1x250 | 3.116 | 5033 |
| 677592◊ | 1000 | 4 | BK,RD,BE,WE | 1.117 | 61 | 80 | 1x600 | 3.563 | 5660 |

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item


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* Strand count meets minimum number per ASTM
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

## 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 |
| 1/0 | 3 | 8.8 | 1900 | 0.167 | 0.208 | 0.044 | 120 | 135 |
| 2/0 | 3 | 9.4 | 2395 | 0.133 | 0.166 | 0.043 | 135 | 150 |
| 3/0 | 3 | 10.3 | 3020 | 0.105 | 0.131 | 0.042 | 155 | 175 |
| 4/0 | 3 | 11 | 3808 | 0.084 | 0.105 | 0.041 | 180 | 205 |
| 250 | 3 | 12.1 | 4500 | 0.07 | 0.087 | 0.041 | 205 | 230 |
| 250 | 3 | 12.1 | 4500 | 0.07 | 0.087 | 0.041 | 205 | 230 |
| 300 | 3 | 12.8 | 5400 | 0.059 | 0.074 | 0.041 | 230 | 260 |
| 350 | 3 | 13.5 | 6300 | 0.051 | 0.064 | 0.04 | 250 | 280 |
| 400 | 3 | 14.2 | 7200 | 0.044 | 0.055 | 0.04 | 270 | 305 |
| 500 | 3 | 15.7 | 9000 | 0.036 | 0.045 | 0.039 | 310 | 350 |
| 500 | 3 | 15.4 | 9000 | 0.036 | 0.045 | 0.039 | 310 | 350 |
| 500 | 3 | 15.3 | 9000 | 0.036 | 0.045 | 0.039 | 310 | 350 |
| 500 | 3 | 15.3 | 9000 | 0.036 | 0.045 | 0.039 | 310 | 350 |
| 600 | 3 | 16.7 | 10800 | 0.03 | 0.038 | 0.039 | 340 | 385 |
| 600 | 3 | 17.4 | 10800 | 0.03 | 0.038 | 0.039 | 340 | 385 |
| 750 | 3 | 18.3 | 13500 | 0.023 | 0.03 | 0.038 | 385 | 435 |
| 750 | 3 | 18.3 | 13500 | 0.023 | 0.03 | 0.038 | 385 | 435 |
| 1/0 | 4 | 9.7 | 2534 | 0.167 | 0.208 | 0.044 | 96 | 108 |
| 2/0 | 4 | 10.3 | 3194 | 0.133 | 0.166 | 0.043 | 108 | 120 |
| 3/0 | 4 | 11.2 | 4027 | 0.105 | 0.131 | 0.042 | 124 | 140 |
| 4/0 | 4 | 12.2 | 5078 | 0.084 | 0.105 | 0.041 | 144 | 164 |
| 250 | 4 | 13.3 | 6000 | 0.07 | 0.087 | 0.041 | 164 | 184 |
| 300 | 4 | 14.1 | 7200 | 0.059 | 0.074 | 0.041 | 184 | 208 |
| 300 | 4 | 14.2 | 7200 | 0.059 | 0.074 | 0.041 | 184 | 208 |
| 350 | 4 | 15.2 | 8400 | 0.051 | 0.064 | 0.04 | 200 | 224 |
| 350 | 4 | 14.9 | 8400 | 0.051 | 0.064 | 0.04 | 200 | 224 |
| 400 | 4 | 16.1 | 9600 | 0.044 | 0.055 | 0.04 | 216 | 244 |
| 400 | 4 | 15.9 | 9600 | 0.044 | 0.055 | 0.04 | 216 | 244 |
| 500 | 4 | 17.3 | 12000 | 0.036 | 0.045 | 0.039 | 248 | 280 |
| 500 | 4 | 17 | 12000 | 0.036 | 0.045 | 0.039 | 248 | 280 |
| 500 | 4 | 17.4 | 12000 | 0.036 | 0.045 | 0.039 | 248 | 280 |
| 600 | 4 | 18.5 | 14400 | 0.03 | 0.038 | 0.039 | 272 | 308 |
| 600 | 4 | 19.3 | 14400 | 0.03 | 0.038 | 0.039 | 272 | 308 |
| 750 | 4 | 21.7 | 18000 | 0.023 | 0.03 | 0.038 | 308 | 348 |
| 750 | 4 | 20.2 | 18000 | 0.023 | 0.03 | 0.038 | 308 | 348 |
| 750 | 4 | 20.3 | 18000 | 0.023 | 0.03 | 0.038 | 308 | 348 |
| 900 | 4 | 21.8 | 21600 | 0.019 | 0.025 | 0.037 | 340 | 384 |
| 1000 | 4 | 24.9 | 24000 | 0.017 | 0.023 | 0.037 | 356 | 400 |


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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.


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