

# Armorlite® Type MC THHN/THWN PVC Jacketed Aluminum Conductor Feeder Cable 120/208V Colors. Silicone Free

Aluminum THHN/THWN 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. Overall PVC Jacket. Sunlight Resistant.

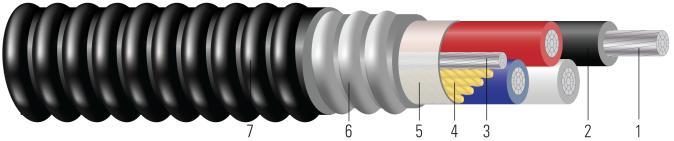


Image not to scale. See Table 1 for dimensions.

#### **CONSTRUCTION:**

- 1. Conductor: Class B compact stranded 8000 Series aluminum per ASTM B800 and ASTM B801
- 2. Insulation: All phases are insulated with 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
- 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:

- 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(D)(2)
- Class I Div. 2, Class II Div 2, & Class III Div. 1 Hazardous Locations.
- Type THHN/THWN rated 90°C Dry/ 75°C 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
- 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:**

SOUTHWIRE {UL} E96627 X/C XXX KCMIL COMPACT 8000 AL. --- TRIPLE E ALLOY AA8176 THHN OR THWN CDRS 600 VOLTS GW 1 X X AWG TYPE MC EZ-JKT FOR CT USE SUN. RES. 90 DEGREES C

# **Table 1 – Weights and Measurements**

| Stock<br>Number | Cond.<br>Size | Conductor<br>Number | Color | Diameter Over<br>Conductor | Conductor<br>Stranding | Insulation<br>Thickness | Ground<br>Size | Diameter<br>Over Armor | Jacket<br>Thickness | Approx.<br>OD | Overall<br>Weight |
|-----------------|---------------|---------------------|-------|----------------------------|------------------------|-------------------------|----------------|------------------------|---------------------|---------------|-------------------|
|                 | AWG/<br>Kcmil |                     |       | inch                       |                        | mils                    | No. x<br>AWG   | inch                   | mil                 | inch          | lbs/1000ft        |
| 679281          | 350           | 2                   | BK,RD | 0.615                      | 35                     | 70                      | 1x250          | 1.942                  | 65                  | 2.074         | 1639              |

All dimensions are nominal and subject to normal manufacturing tolerances

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.





<sup>♦</sup> Cable marked with this symbol is a standard stock item

<sup>\*</sup> Strand count meets minimum number per ASTM



# Table 2 – Electrical and Engineering Data

| Cond.<br>Size | Conductor<br>Number | Min. Bend<br>Radius | Max Pull<br>Tension | DC Resistance<br>at 25°C | AC Resistance<br>at 75°C | Inductive<br>Reactance @ 60Hz | Allowable Ampacity<br>Raceway 75°C | Allowable Ampacity<br>Raceway 90°C |
|---------------|---------------------|---------------------|---------------------|--------------------------|--------------------------|-------------------------------|------------------------------------|------------------------------------|
| AWG/<br>Kcmil |                     | Inches              | Lbs                 | Ω/1000ft                 | Ω/1000ft                 | Ω/1000ft                      | Amp                                | Amp                                |
| 350           | 2                   | 14.5                | 4200                | 0.050                    | 0.062                    | 0.040                         | 250                                | 280                                |

<sup>\*</sup> Ampacities based upon 2023 NEC Table 310.16. See NEC sections 310.15 and 110.14(C) for additional requirements.



<sup>\*</sup> Ampacities have been adjusted for more than Three Current-Carrying Conductors.