# AL 600/1000V XLPE Insulation AIA PVC Jacket XHHW-2. CT Rated - Sunlight Resistant - For Direct Burial - Silicone Free

Type MC Power Cable 600Volt Four Conductor Aluminum, Cross Linked Polyethylene (XLPE) insulation XHHW-2 Aluminum Interlocked Armor (AIA), Polyvinyl Chloride (PVC) Jacket with 3 Bare AL Ground. Silicone Free.

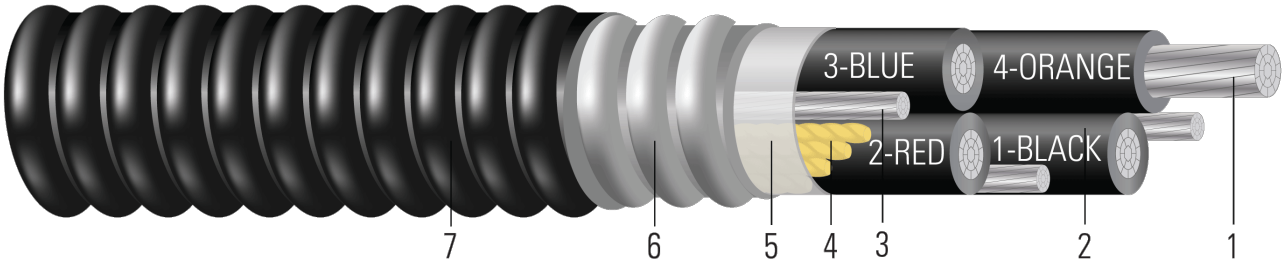



Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Class B compact stranded 8000 Series aluminum per ASTM B800 and ASTM B836
2. **Insulation:** Cross Linked Polyethylene (XLPE) Type XHHW-2
3. **Grounding Conductor:** Three separate ground wires with a combined circular mil of 50% of the phase condutor. Class B compact stranded 8000 Series aluminum per ASTM B800 and ASTM B836
4. **Filler:** Paper filler or Polypropylene filler
5. **Binder:** Polypropylene tape
6. **Armor:** Aluminum Interlocked Armor (AIA)
7. **Overall Jacket:** Polyvinyl Chloride (PVC) Jacket

## APPLICATIONS AND FEATURES:

Southwire's 600 Volt Type MC power cables are suited for use in wet and dry areas, conduits, ducts, troughs, trays, direct burial, aerial supported by a messenger, and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 90°C for normal operation in wet and dry locations, 130°C for emergency overload, and 250°C for short circuit conditions. For uses in Class I, II, and III, Division 2 hazardous locations per NEC Article 501 and 502. The ground is sized to 50% of the phase conductor with three separate bare grounds one in each interstecie between condutors. Silicone Free.

## SPECIFICATIONS:

- ASTM B801 Concentric-Lay-Stranded Conductors of 8000 Series Aluminum Alloy
- ASTM B836 Compact Rounded Stranded Aluminum Conductors
- UL 44 Thermoset-Insulated Wires and Cables
- UL 1569 Metal-Clad Cables
- UL 1685 FT4 Vertical-Tray Fire Propagation and Smoke Release Test
- UL 1685 Vertical-Tray Fire Propagation and Smoke Release Test
- ICEA S-58-679 Cable Conductor Identification Method 3 (1-BLACK, 2-RED, 3-BLUE)
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy


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## SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE {UL} 4/C 750 KCMIL COMPACT 8000 AL. --- TRIPLE E ALLOY AA8176 XHHW CDRS 600 VOLTS GW 3 X 2/0 AWG 3E AL TYPE MC EZ-JKT FOR CT USE SUN. RES. DIRECT BURIAL 90°C

## Table 1 – Weights and Measurements

| Stock Number | Cond. Size | Cond. Number | Strand Count | Diameter Over Conductor | Insul. Thickness | Dia. Over Insulation | Ground | Dia. Over Armor | Jacket Thickness | Approx. OD | Jacket Color |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | AWG/ Kcmil | | No. of Strands | inch | mil | inch | No. x AWG | inch | mil | inch | |
| TBA | 1/0 | 4 | 19 | 0.336 | 55 | 0.446 | 3 x 6 | 1.292 | 50 | 1.392 | BK |
| TBA | 2/0 | 4 | 19 | 0.376 | 55 | 0.486 | 3 x 6 | 1.389 | 50 | 1.489 | BK |
| TBA | 3/0 | 4 | 19 | 0.423 | 55 | 0.533 | 3 x 4 | 1.603 | 50 | 1.703 | BK |
| TBA | 4/0 | 4 | 19 | 0.475 | 55 | 0.585 | 3 x 4 | 1.729 | 50 | 1.829 | BK |
| TBA | 250 | 4 | 37 | 0.52 | 65 | 0.65 | 3 x 2 | 1.886 | 60 | 2.006 | BK |
| TBA | 300 | 4 | 37 | 0.57 | 65 | 0.7 | 3 x 2 | 2.007 | 60 | 2.127 | BK |
| TBA | 350 | 4 | 37 | 0.616 | 65 | 0.746 | 3 x 2 | 2.118 | 60 | 2.238 | BK |
| TBA | 500 | 4 | 37 | 0.736 | 65 | 0.866 | 3 x 1 | 2.409 | 60 | 2.529 | BK |
| TBA | 600 | 4 | 61 | 0.813 | 80 | 0.973 | 3 x 1/0 | 2.668 | 75 | 2.818 | BK |
| 587658◊ | 750 | 4 | 58 | 0.908 | 80 | 1.068 | 3 x 2/0 | 2.895 | 75 | 3.053 | BK |

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
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

| Stock Number | Cond. Size | Cond. Number | Min Bending Radius | Max Pull Tension | DC Resistance @ 25°C | AC Resistance @ 75°C | Inductive Reactance @ 60Hz | Allowable Ampacity At 75°C | Allowable Ampacity At 90°C |
|---|---|---|---|---|---|---|---|---|---|
| | AWG/ Kcmil | | inch | lb | Ω/1000ft | Ω/1000ft | Ω/1000ft | Amp | Amp |
| TBA | 1/0 | 4 | 9.7 | 2534 | 0.167 | 0.208 | 0.044 | 96 | 108 |
| TBA | 2/0 | 4 | 10.4 | 3194 | 0.133 | 0.166 | 0.043 | 108 | 120 |
| TBA | 3/0 | 4 | 11.9 | 4027 | 0.105 | 0.131 | 0.042 | 124 | 140 |
| TBA | 4/0 | 4 | 12.8 | 5078 | 0.084 | 0.105 | 0.041 | 144 | 164 |
| TBA | 250 | 4 | 14 | 6000 | 0.07 | 0.087 | 0.041 | 164 | 184 |
| TBA | 300 | 4 | 14.9 | 7200 | 0.059 | 0.074 | 0.041 | 184 | 208 |
| TBA | 350 | 4 | 15.7 | 8400 | 0.051 | 0.064 | 0.04 | 200 | 224 |
| TBA | 500 | 4 | 17.7 | 12000 | 0.036 | 0.045 | 0.039 | 248 | 280 |
| TBA | 600 | 4 | 19.7 | 14400 | 0.03 | 0.038 | 0.039 | 272 | 308 |
| 587658◊ | 750 | 4 | 21.4 | 18000 | 0.023 | 0.03 | 0.038 | 308 | 348 |

***** 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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