

CU 600/1000V XLPE Insulation ARMOR-X[®] PVC Jacket XHHW-2. CT Rated -Sunlight Resistant - For Direct Burial - Silicone Free

Type MC-HL Power Cable 600Volt Four Conductor Copper, Cross Linked Polyethylene (XLPE) insulation XHHW-2 Continuous Corrugated Welded Armor - ARMOR-X[®], Polyvinyl Chloride (PVC) Jacket with One Bare CU Ground

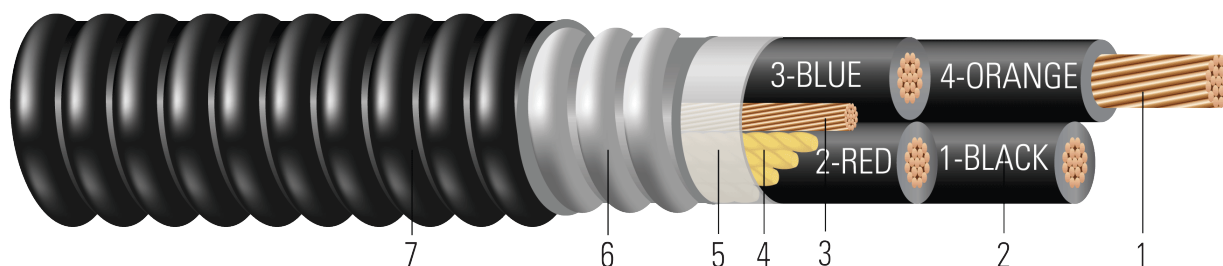


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- Conductor:** Class B compressed stranded bare copper per ASTM B3 and B8
- Insulation:** Cross Linked Polyethylene (XLPE) Type XHHW-2
- Grounding Conductor:** Class B compressed stranded bare copper per ASTM B3 and B8
- Filler:** Paper filler (cable size 8 & 6 uses Polypropylene filler)
- Binder:** Polypropylene tape
- Armor:** ARMOR-X[®] Continuous Corrugated Welded Armor
- Overall Jacket:** Polyvinyl Chloride (PVC) Jacket

APPLICATIONS AND FEATURES:

Southwire's 600 Volt Type MC-HL ARMOR-X[®] 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, 250°C for short circuit conditions, and -50°C for cold bend. For uses in Class I, II, and III, Division 1 and 2 hazardous locations per NEC Article 501, 502, and 503.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 44 Thermoset-Insulated Wires and Cables
- UL 1569 Metal-Clad Cables
- UL 1685 FT4 Vertical-Tray Fire Propagation and Smoke Release Test
- ICEA S-58-679 Control 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
- IEEE 1202 FT4 Vertical Tray Flame Test (70,000 Btu/hr) and ICEA T-29-520 - (210,000 Btu/hr)



SAMPLE PRINT LEGEND:

{SQFTG_DUAL} SOUTHWIRE ARMOR-X® {UL} TYPE MC-HL 4/C XXX KCMIL (XXX{mm2}) CU XHHW-2 GW 1 X X AWG 90°C JACKET -40°C SUN. RES. DIR. BUR. FOR CT USE 600V IEEE1202/FT4 -- {CSA} RA90-HL AG14 XLPE -40°C 600V FT4 SR 90°C -- CWC MC -- {NOM}-ANCE Tipo MC XHHW-2 CT FT4

Table 1 – Weights and Measurements

| Stock Number | Cond. Size | Cond. Number | Strand Count | Diameter Over Conductor | Insul. Thickness | Ground | Dia. Over Armor | Jacket Thickness | Approx. OD | Copper Weight | Approx. Weight |
|--------------|------------|--------------|----------------|-------------------------|------------------|-----------|-----------------|------------------|------------|---------------|----------------|
| | AWG/Kcmil | | No. of Strands | inch | mil | No. x AWG | inch | mil | inch | lb/1000ft | lb/1000ft |
| 890527 | 8 | 4 | 7 | 0.141 | 45 | 1 x 10 | 0.840 | 50 | 0.946 | 238 | 476 |
| 890528 | 6 | 4 | 7 | 0.177 | 45 | 1 x 8 | 0.920 | 50 | 1.026 | 378 | 649 |
| 890529 | 4 | 4 | 7 | 0.225 | 45 | 1 x 8 | 1.060 | 50 | 1.166 | 569 | 918 |
| 890530 | 2 | 4 | 7 | 0.282 | 45 | 1 x 6 | 1.220 | 60 | 1.326 | 909 | 1295 |
| 890531 | 1/0 | 4 | 19 | 0.361 | 55 | 1 x 6 | 1.470 | 60 | 1.576 | 1399 | 1948 |
| 890532 | 2/0 | 4 | 19 | 0.405 | 55 | 1 x 6 | 1.540 | 60 | 1.666 | 1790 | 2436 |
| 582265 | 3/0 | 4 | 19 | 0.456 | 55 | 1 x 4 | 1.760 | 60 | 1.886 | 2223 | 2954 |
| 890533 | 4/0 | 4 | 19 | 0.512 | 55 | 1 x 4 | 1.845 | 60 | 1.971 | 2769 | 3536 |
| 890534 | 250 | 4 | 37 | 0.558 | 65 | 1 x 4 | 2.040 | 60 | 2.166 | 3248 | 4278 |
| 890535 | 350 | 4 | 37 | 0.661 | 65 | 1 x 3 | 2.290 | 75 | 2.448 | 4530 | 5741 |
| 890536 | 500 | 4 | 37 | 0.789 | 65 | 1 x 2 | 2.670 | 75 | 2.828 | 6443 | 7980 |
| 890537 | 750 | 4 | 61 | 0.968 | 80 | 1 x 1 | 3.220 | 85 | 3.398 | 9616 | 12254 |

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

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 | Capacitive Reactance @ 60Hz | Inductive Reactance @ 60Hz | Allowable Ampacity At 75°C | Allowable Ampacity At 90°C |
|--------------|------------|--------------|--------------------|------------------|----------------------|----------------------|-----------------------------|----------------------------|----------------------------|----------------------------|
| | AWG/Kcmil | | inch | lb | Ω/1000ft | Ω/1000ft | MΩ*1000ft | Ω/1000ft | Amp | Amp |
| 890527 | 8 | 4 | 6.6 | 422 | 0.653 | 0.786 | 0.033 | 0.052 | 40 | 44 |
| 890528 | 6 | 4 | 7.2 | 671 | 0.411 | 0.495 | 0.027 | 0.051 | 52 | 60 |
| 890529 | 4 | 4 | 8.2 | 1068 | 0.258 | 0.310 | 0.022 | 0.048 | 68 | 76 |
| 890530 | 2 | 4 | 9.3 | 1698 | 0.162 | 0.195 | 0.018 | 0.045 | 92 | 104 |
| 890531 | 1/0 | 4 | 11.0 | 2703 | 0.102 | 0.122 | 0.017 | 0.044 | 120 | 136 |
| 890532 | 2/0 | 4 | 11.7 | 3407 | 0.081 | 0.097 | 0.016 | 0.043 | 140 | 156 |
| 582265 | 3/0 | 4 | 13.2 | 4295 | 0.064 | 0.078 | 0.014 | 0.042 | 160 | 180 |
| 890533 | 4/0 | 4 | 13.8 | 5416 | 0.051 | 0.062 | 0.013 | 0.041 | 184 | 208 |
| 890534 | 250 | 4 | 15.2 | 6400 | 0.043 | 0.053 | 0.014 | 0.041 | 204 | 232 |
| 890535 | 350 | 4 | 17.1 | 8960 | 0.031 | 0.039 | 0.012 | 0.040 | 248 | 280 |
| 890536 | 500 | 4 | 19.8 | 12800 | 0.022 | 0.029 | 0.010 | 0.039 | 304 | 344 |
| 890537 | 750 | 4 | 23.8 | 19200 | 0.014 | 0.022 | 0.010 | 0.038 | 380 | 428 |

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

