## CU 600/1000V XLPE Insulation ARMOR-X ${ }^{\circledR}$ Thermoplastic LSZH-TP 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 ${ }^{\circledR}$, Thermoplastic SOLONON® Low Smoke Zero Halogen (LSZH-TP) Jacket with 1 Bare CU Ground


Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. Conductor: Class B compressed stranded bare copper per ASTM B3 and B8
2. Insulation: Cross Linked Polyethylene (XLPE) Type XHHW-2
3. Grounding Conductor: Class B compressed stranded bare copper per ASTM B3 and B8
4. Filler: Paper filler (cable size 8 \& 6 uses Polypropylene filler)
5. Binder: Polypropylene tape
6. Armor: ARMOR-X ${ }^{\circledR}$ Continuous Corrugated Welded Armor
7. Overall Jacket: Thermoplastic SOLONON® Low Smoke Zero Halogen (LSZH-TP) Jacket

## APPLICATIONS AND FEATURES:

Southwire's 600 Volt Type MC-HL ARMOR-X ${ }^{\circledR}$ 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 $90^{\circ} \mathrm{C}$ for normal operation in wet and dry locations, $130^{\circ} \mathrm{C}$ for emergency overload, $250^{\circ} \mathrm{C}$ for short circuit conditions, and $-50^{\circ} \mathrm{C}$ 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 Flame Test $(70,000)$ BTU/hr Vertical Tray Test
- NFPA 130 Standard for Fixed Guideway Transit and Passenger Rail Systems (500kcmil \& Larger)

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## SAMPLE PRINT LEGEND:

\{SOFTG_DUAL\} SOUTHWIRE® \{UL\} ARMOR-X ${ }^{\circledR}$ TYPE MC-HL 4/C XXX AWG (XXX\{mm2\}) CU XHHW-2 GW 1 XX AWG $90^{\circ} \mathrm{C}$ SOLONON® JACKET -40º ST1 SUN.RES. DIR. BUR. FOR CT USE 600V IEEE1202/FT4 -- \{NOM\}-ANCE Tipo MC XHHW-2 CT FT4

Table 1 - Weights and Measurements

| Cond. Size | Cond. Number | Strand Count | Diameter Over Conductor | Insul. <br> Thickness | Ground | Dia. Over Armor | Jacket Thickness | $\begin{gathered} \text { Approx. } \\ \text { OD } \end{gathered}$ | Copper Weight | Approx. Weight |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AWG/ Kcmil |  | No. of Strands | inch | mil | No. x AWG | inch | mil | inch | $\mathrm{lb} / 1000 \mathrm{ft}$ | lb/1000ft |
| 8 | 4 | 7 | 0.141 | 45 | $1 \times 10$ | 0.790 | 50 | 0.890 | 237 | 504 |

All dimensions are nominal and subject to normal manufacturing tolerances
$\diamond$ Cable marked with this symbol is a standard stock item
Table 2 - Electrical and Engineering Data

| Cond. Size | Cond. Number | Min Bending Radius | Max Pull Tension | DC Resistance <br> @ $25^{\circ} \mathrm{C}$ | AC Resistance @ $75^{\circ} \mathrm{C}$ | Capacitive Reactance @ 60 Hz | Inductive Reactance @ 60 Hz | Allowable Ampacity At $75^{\circ} \mathrm{C}$ | Allowable Ampacity At $90^{\circ} \mathrm{C}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AWG/ Kcmil |  | inch | lb | ת/1000ft | ת/1000ft | $\mathrm{M} \Omega^{*} 1000 \mathrm{ft}$ | ת/1000ft | Amp | Amp |
| 8 | 4 | 6.2 | 422 | 0.653 | 0.786 | 0.033 | 0.052 | 40 | 44 |

[^0]
[^0]:    * 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.

