

CU 600/1000V XLPE Insulation PVC AIA PVC Jacket XHHW-2. Teck - CT Rated -Sunlight Resistant - For Direct Burial - Silicone Free {SQMTR_DUAL} SOUTHWIRE{R} {CSA} LL90458 3/C XXX AWG (XX{mm2}) CU TECK 90 XLPE -40{D}C FT4 AG14 SUN.

{SQMTR_DUAL} SOUTHWIRE{R} {CSA} LL90458 3/C XXX AWG (XX{mm2}) CU TECK 90 XLPE -40{D}C FT4 AG14 SUN. RES. 90{D}C 1000V HL --- {UL} E96627 TYPE MC XLPE 600V SUN. RES. DIRECT BURIAL 90{D}C --- {NOM}-ANCE Tipo MC XHHW-2 CT FT4 600V o 1000V 90{D}C USA

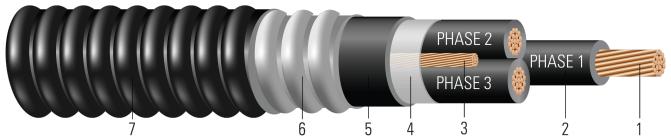


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- 1. **Conductor:** Class B stranded copper, compressed, in accordance with ASTM B3 and B8. Sizes #1 to 4/0 are combination unilay-stranded copper conductors in accordance with ASTM B787.
- 2. Insulation: Cross-Linked Polyethylene (XLPE)
- 3. Grounding Conductors: Uninsulated Class B stranded grounding conductor
- 4. Binder: Mylar tape
- 5. Inner Jacket: Black Polyvinyl Chloride (PVC)
- 6. Armor: Aluminum Interlocked Armour (AIA)
- 7. Overall Jacket: Black PVC (optional colours available)

APPLICATIONS AND FEATURES:

For exposed or concealed wiring in wet or dry locations. For use in ventilated, non-ventilated and ladder type cable troughs and ventilated flexible cableway in wet, dry, hazardous locations or direct buried. Sunlight Resistant. Typical applications are for control. lighting and power circuits in: pulp and paper mills, steel mills, food processing plants, commercial centers, mines, generating stations, refineries, industrial plants and chemical plants.

- -40°C CSA Cold Bend and Impact Temperature
- -40°C Min. Installation Temperature
- 90°C Max. Continuous Operating Temperature

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ASTM B787 19 Wire Combination Unilay-Stranded Copper Conductors
- UL 1569 Metal-Clad Cables
- CSA C22.2 No. 174 Cables in Hazardous Locations
- CSA C22.2 No. 131 Type TECK 90 Cable
- CSA LTGG [-40°C] as per C68.10 for Cold Bend and Impact rating
- CSA AG14 Acid Gas Compliance









- ICEA S-58-679 Control Cable Conductor Identification Method 3 (1-BLACK, 2-RED, 3-BLUE)
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test

SAMPLE PRINT LEGEND:

{SQMTR_DUAL} SOUTHWIRE® {CSA} LL90458 3/C XXX AWG (XX{mm2}) CU TECK 90 XLPE -40°C FT4 AG14 SUN. RES. 90°C 1000V HL --- {UL} E96627 TYPE MC XLPE 600V SUN. RES. DIRECT BURIAL 90°C --- {NOM}-ANCE Tipo MC XHHW-2 CT FT4 600V o 1000V 90°C USA

Table 1 – Weights and Measurements

| Cond. Size | Cond. Number | Strand Count | Diameter Over Conductor | Insul. Thickness | Ground | Inner Jacket Thickness | Dia. Over Armor | Jacket Thickness | Approx. OD | Copper Weight | Approx. Weight | Jacket Color |
|---------------|-----------------|-------------------|----------------------------|---------------------|--------------|---------------------------|--------------------|---------------------|---------------|------------------|-------------------|-----------------|
| AWG/ Kcmil | | No. of Strands | inch | mil | No. x AWG | mil | inch | mil | inch | lb/1000ft | lb/1000ft | |
| 8 | 3 | 7 | 0.141 | 45 | 1 x 10 | 50 | 0.846 | 55 | 0.956 | 186 | 490 | Black |

All dimensions are nominal and subject to normal manufacturing tolerances

Table 2 – Electrical and Engineering Data

| 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 |
| 8 | 3 | 6.7 | 396 | 0.653 | 0.786 | 0.033 | 0.052 | 50 | 55 |

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







[♦] Cable marked with this symbol is a standard stock item

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.