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. 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

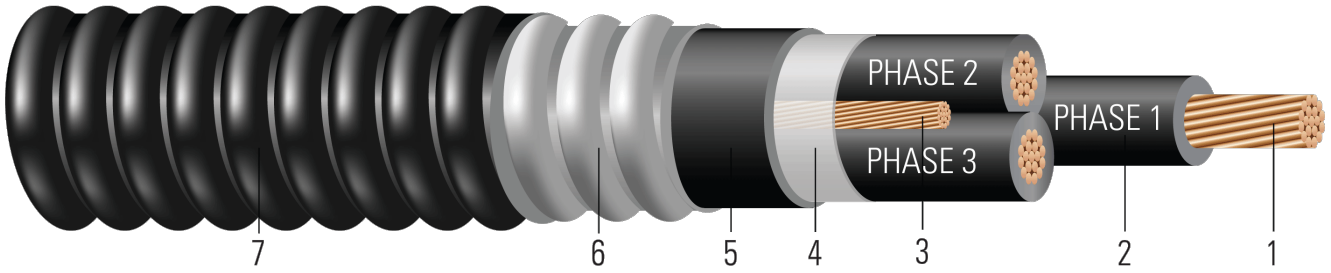


Image not to scale. See Table 1 for dimensions.

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

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- ICEA S-58-679 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

Stock Number	Cond. Size	Cond. Number	Strand Count	Diameter Over Conductor	Insul. Thickness	Dia. Over Insulation	Ground	Inner Jacket Thickness	Dia. Over Armor	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight	Jacket Color
	AWG/ Kcmil		No. of Strands	inch	mil	inch	No. x AWG	mil	inch	mil	inch	lb/ 1000ft	lb/ 1000ft	
640853	8	3	7	0.142	45	0.232	1 x 10	50	0.846	55	0.956	187	491	BK
640881	1	3	19	0.322	80	0.432	1 x 6	50	1.549	65	1.681	865	1641	BK
640878	1/0	3	19	0.362	80	0.472	1 x 6	50	1.633	65	1.765	1070	1900	BK
640889	3/0	3	19	0.456	80	0.566	1 x 4	50	1.814	65	1.946	1700	2654	BK
640898	4/0	3	19	0.512	80	0.622	1 x 4	50	1.943	65	2.075	2110	3207	BK
640905	350	3	37	0.661	90	0.791	1 x 3	60	2.36	80	2.526	3439	5021	BK
TBA	500	3	37	0.789	65	0.919	1 x 3	110	2.298	60	2.418	4678	5920	BK

All dimensions are nominal and subject to normal manufacturing tolerances
◊ 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.

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
640853	8	3	6.7	396	0.653	0.81	0.052	50	55
640881	1	3	11.8	2008	0.128	0.159	0.046	130	145
640878	1/0	3	12.4	2534	0.102	0.127	0.044	150	170
640889	3/0	3	13.6	4027	0.064	0.079	0.042	200	225
640898	4/0	3	14.5	5078	0.051	0.063	0.041	230	260
640905	350	3	17.7	8400	0.031	0.039	0.04	310	350
TBA	500	3	16.9	12000	0.021	0.027	0.039	380	430

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

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