



# 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{mm<sup>2</sup>}) 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

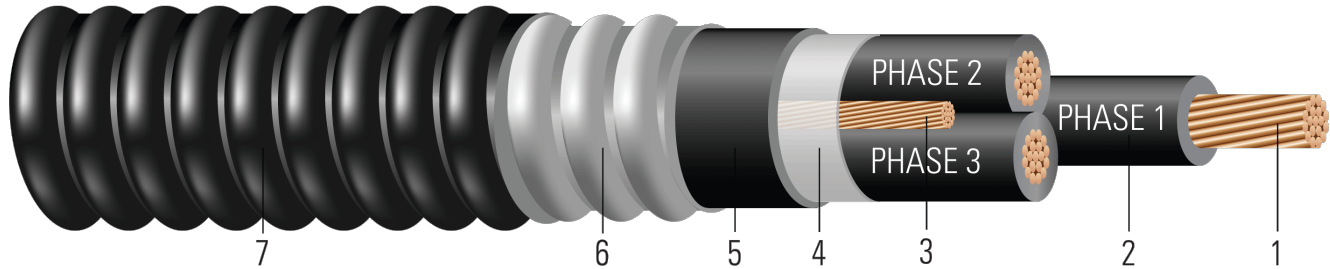


Image not to scale. See Table 1 for dimensions.

## 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:**

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**Table 1 – Weights and Measurements**

Stock Number	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
	AWG/ Kcmil		No. of Strands	inch	mil	No. x AWG	mil	inch	mil	inch	lb/1000ft	lb/1000ft
640853	8	3	7	0.141	45	1 x 10	50	0.846	55	0.956	186	490
640881	1	3	19	0.322	55	1 x 6	50	1.548	65	1.680	864	1639
640878	1/0	3	19	0.361	55	1 x 6	50	1.632	65	1.764	1069	1896
640889	3/0	3	19	0.456	55	1 x 4	50	1.814	65	1.946	1699	2643
640898	4/0	3	19	0.512	55	1 x 4	50	1.943	65	2.075	2109	3205
640905	350	3	37	0.661	65	1 x 3	60	2.360	80	2.526	3438	5020
TBA	500	3	37	0.789	65	1 x 3	110	2.297	75	2.447	4878	6188

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
640853	8	3	6.7	396	0.653	0.786	0.033	0.052	50	55
640881	1	3	11.8	2008	0.128	0.154	0.019	0.046	130	145
640878	1/0	3	12.3	2534	0.102	0.122	0.017	0.044	150	170
640889	3/0	3	13.6	4027	0.064	0.078	0.014	0.042	200	225
640898	4/0	3	14.5	5078	0.051	0.062	0.013	0.041	230	260
640905	350	3	17.7	8400	0.031	0.039	0.012	0.040	310	350
TBA	500	3	17.1	12000	0.022	0.029	0.010	0.039	380	430

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

