CU 1000V XLPE Insulation PVC Jacket XHHW-2 Teck CT Rated - Sunlight Resistant - For Direct Burial - Silicone Free

1000V Multi Conductor, 14-10 AWG Copper, FT4 - Flame Retardancy Rating, XLPE Insulation, Aluminum Interlocked Armor, Sunlight Resistant, Direct Buried, 90°C

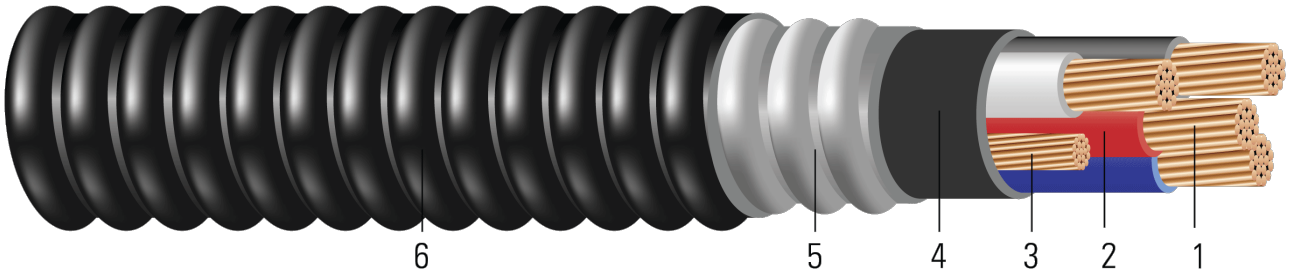

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B stranded copper, compressed in accordance with ASTM B3 and B8.
2. **Insulation:** Cross-Linked Polyethylene (XLPE), Color Code: 2/C black, white; 3/C red, black, blue; 4/C red, black, blue, white
3. **Grounding Conductor:** Uninsulated Class B stranded grounding conductor
4. **Inner Jacket:** Black Polyvinyl Chloride (PVC)
5. **Armor:** Aluminum Interlocked Armor (AIA)
6. **Overall Jacket:** Black PVC (optional colors 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.

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 Vertical-Tray Fire Propagation and Smoke Release Test
- CSA C22.2 No. 174 Cables in Hazardous Locations
- CSA C22.2 No. 131 Type TECK 90 Cable
- CSA AG14 - Acid Gas Compliance
- ICEA S-58-679 Control Cable Conductor Identification Method 1 Table 2
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy

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UPDATED: Dec. 31, 2024, 11:07 p.m.UTC REVISION: 1.000.010

SAMPLE PRINT LEGEND:

{SQMTR_DUAL} SOUTHWIRE® {CSA} LL90458 X/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 1000V 90°C USA

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Strand Count	Insul. Thickness	Ground	Inner Jacket Thickness	Dia. Over Armor	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight	Jacket Color
	AWG/ Kcmil		No. of Strands	mil	No. x AWG	mil	inch	mil	inch	lb/1000ft	lb/1000ft	
TBA	14	2	7	30	1 x 14	40	0.493	50	0.593	38	162	Black
TBA	14	4	7	30	1 x 14	40	0.649	50	0.749	64	255	Black
563522	14	3	7	45	1 x 14	40	0.660	50	0.760	51	256	Black
567121	12	2	7	45	1 x 14	40	0.669	50	0.769	53	256	Black
563526	12	3	7	45	1 x 14	50	0.698	50	0.798	73	294	Black
TBA	12	4	7	30	1 x 12	40	0.698	50	0.798	101	312	Black
TBA	10	2	7	30	1 x 10	40	0.672	50	0.772	96	301	Black
562297	10	3	7	45	1 x 12	50	0.785	50	0.885	117	384	Black
TBA	10	4	7	30	1 x 10	50	0.785	50	0.885	161	416	Black

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	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity At 75°C	Allowable Ampacity At 90°C
	AWG/ Kcmil		inch	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
TBA	14	2	4.2	2.631	3.170	0.058	20	25
TBA	14	4	5.2	2.631	3.170	0.058	16	20
563522	14	3	5.3	2.631	3.170	0.058	20	25
567121	12	2	5.4	1.662	2.002	0.054	25	30
563526	12	3	5.6	1.662	2.002	0.054	25	30
TBA	12	4	5.6	1.662	2.002	0.054	20	24
TBA	10	2	5.4	1.040	1.253	0.050	35	40
562297	10	3	6.2	1.040	1.253	0.050	35	40
TBA	10	4	6.2	1.040	1.253	0.050	28	32

* Ampacities based upon 2023 NEC Table 310.16 and do not take into account the overcurrent protection limitations in NEC 240.4(D) of 15 Amps for 14 AWG CU, 20 Amps for 12 AWG CU, and 30 Amps for 10 AWG CU (independent of the conductor temperature rating and stranding if size is present in table). Also, see NEC sections 310.15 and 110.14(C) for additional requirements.
* Ampacities have been adjusted for more than Three Current-Carrying Conductors.

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