CSA TECK 90 1000V LSZH CONTROL CABLE

1000V Multi Conductor, 14 AWG - 1000 kcmil Copper, FT4 - Flame Retardancy Rating, XLPE Insulation, Aluminum Interlocked Armour, Sunlight Resistant, -40°C - 90°C, Rated HL, AG14

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

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

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. 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. Meets Flame Spread and Smoke Release requirements of NFPA 130. Rated for 1000 lbs./FT maximum sidewall pressure.

- -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
- CSA C22.2 No. 174 Cables in Hazardous Locations
- CSA C22.2 No. 131 Type TECK 90 Cable
- CSA C22.2 No. 2556 & No. 0.3 Wire and Cable Test Methods
- CSA SUN RES - for Sunlight Resistant rating
- CSA AG14 - Acid Gas Compliance
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test
- NFPA 130 Standard for Fixed Guideway Transit and Passenger Rail Systems

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SAMPLE PRINT LEGEND:

{SQMTR} SOUTHWIRE {CSA} LL90458 X/C XX AWG CU TECK 90 XLPE -40°C FT4-ST1 AG14 SUN RES 90°C 1000V HL USA

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Table 1 – Physical and Electrical Data

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Cond.	Insulation Color	Insul. Thickness	Ground	Diameter Over Armor	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Rectance	Min Bending Radius	A A
	AWG	No.	strands	inch		mil	No. x AWG	inch	mil	inch	lb / 1000ft	lb / 1000ft	Ω /1000ft	Ω /1000ft	Ω/1000ft	inch	
14 AWG																	
TBA	14	2	7	0.070	M1T2	45	1 x 14	0.655	45	0.745	38	233	2.631	3.170	0.058	5.2	
TBA	14	3	7	0.070	M1T2	45	1 x 14	0.697	45	0.787	51	270	2.631	3.170	0.058	5.5	
TBA	14	4	7	0.070	M1T2	45	1 x 14	0.772	45	0.862	64	318	2.631	3.170	0.058	6.0	
12 AWG																	
668227	12	2	7	0.088	M1T2	45	1 x 14	0.675	45	0.765	53	259	1.662	2.002	0.054	5.3	
668224	12	3	7	0.088	M1T2	45	1 x 14	0.698	45	0.788	73	293	1.662	2.002	0.054	5.5	
TBA	12	4	7	0.088	M1T2	45	1 x 14	0.820	45	0.910	94	372	1.662	2.002	0.054	6.3	
10 AWG																	
668230	10	2	7	0.113	M1T2	45	1 x 12	0.723	45	0.813	85	312	1.040	1.253	0.050	5.6	
TBA	10	3	7	0.113	M1T2	45	1 x 12	0.831	45	0.921	117	411	1.040	1.253	0.050	6.4	
TBA	10	4	7	0.113	M1T2	45	1 x 12	0.888	45	0.978	149	460	1.040	1.253	0.050	6.8	

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
† 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.
* Inductive impedance is based on non-ferrous conduit with one diameter spacing.
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.

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