CSA TECK 90 600V LSZH CONTROL CABLE

600V Multi Conductor, 14-10 AWG Copper, FT4 - Flame Retardancy Rating, XLPE Insulation, Aluminum Interlocked Armour, Sunlight Resistant, -40°C - 90°C, Rated HL, AG14

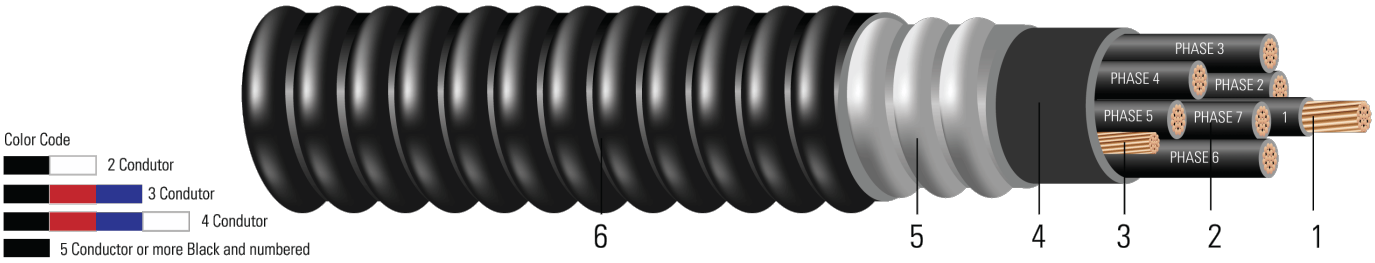


Image not to scale. See Table 1 for dimensions.

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; For 5/C cables or more, the insulation is black and numbered
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, or 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 ST1 Smoke Test - marked FT4-ST1
- 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 LSZH JACKET -40°C FT4-ST1 AG14 SUN RES 90°C 600V HL USA

Table 1 – Weights and Measurements

Cond. Size	Strand	Diameter Over Conductor	Diameter Over Insulation	Insul. Thickness	Ground	Ground Size	Inner Jacket Thickness	Dia. Over Inner Jacket	Dia. Over Armour	Overall Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight
AWG/ Kcmil	No.	inch	inch	mil	No. x AWG	AWG	mil	inch	inch	mil	inch	lb/ 1000ft	lb/1000ft
14	7	0.071	0.131	30	1x14	14	50	0.368	0.578	45	0.668	39	243
14	7	0.071	0.131	30	1x14	14	50	0.389	0.599	45	0.689	52	269
14	7	0.071	0.131	30	1x14	14	50	0.423	0.633	45	0.723	65	300
14	7	0.071	0.131	30	1x14	14	50	0.46	0.67	45	0.76	78	332
14	7	0.071	0.131	30	1x14	14	50	0.499	0.709	45	0.799	91	365
14	7	0.071	0.131	30	1x14	14	50	0.499	0.709	45	0.799	104	384
14	7	0.071	0.131	30	1x14	14	65	0.57	0.78	45	0.87	118	409
14	7	0.071	0.131	30	1x14	14	65	0.66	0.87	45	0.96	144	477
14	7	0.071	0.131	30	1x14	14	65	0.681	0.891	45	0.981	170	521
14	7	0.071	0.131	30	1x14	14	65	0.753	0.963	45	1.053	209	601
14	7	0.071	0.131	30	1x14	14	65	0.791	1.001	45	1.091	262	688
14	7	0.071	0.131	30	1x14	14	85	0.872	1.082	45	1.172	275	694
14	7	0.071	0.131	30	1x14	14	85	0.962	1.172	45	1.262	341	815
14	7	0.071	0.131	30	1x14	14	85	1.016	1.226	45	1.316	406	922
12	7	0.089	0.149	30	1x14	14	50	0.404	0.614	45	0.704	53	273
12	7	0.089	0.149	30	1x14	14	50	0.428	0.638	45	0.728	73	307
12	7	0.089	0.149	30	1x14	14	50	0.467	0.677	45	0.767	93	348
12	7	0.089	0.149	30	1x14	14	50	0.508	0.718	45	0.808	114	391
12	7	0.089	0.149	30	1x14	14	65	0.583	0.793	45	0.883	134	424
12	7	0.089	0.149	30	1x14	14	65	0.583	0.793	45	0.883	154	450
12	7	0.089	0.149	30	1x14	14	65	0.629	0.839	45	0.929	174	493
12	7	0.089	0.149	30	1x14	14	65	0.732	0.942	45	1.032	215	582
12	7	0.089	0.149	30	1x14	14	65	0.756	0.966	45	1.056	255	643
12	7	0.089	0.149	30	1x14	14	85	0.878	1.088	45	1.178	316	726
12	7	0.089	0.149	30	1x14	14	85	0.967	1.177	45	1.267	417	886
12	7	0.089	0.149	30	1x14	14	85	1.07	1.28	45	1.37	518	1049
10	7	0.113	0.173	30	1x12	12	50	0.452	0.662	45	0.752	84	323
10	7	0.113	0.173	30	1x12	12	50	0.48	0.69	45	0.78	116	374
10	7	0.113	0.173	30	1x12	12	50	0.525	0.735	45	0.825	149	430
10	7	0.113	0.173	30	1x12	12	65	0.655	0.865	45	0.955	213	536
10	7	0.113	0.173	30	1x12	12	65	0.709	0.919	45	1.009	278	634
10	7	0.113	0.173	30	1x12	12	65	0.828	1.038	45	1.128	343	756
10	7	0.113	0.173	30	1x12	12	85	0.896	1.106	45	1.196	407	818
10	7	0.113	0.173	30	1x12	12	85	0.991	1.201	45	1.291	504	967

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item

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All Dimensions are nominal and subject to normal manufacturing tolerances
* Use Table 5C in the 2015 Canadian Electrical Code to derate this ampacity as per Rules 4-004 & 12-2210
† Ampacities based on not more than 3 conductors (4 with neutral) in raceway or cable as per Table 2 of 2015 Canadian Electrical Code
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

Cond. Size	Min Bending Radius	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance @ 60Hz	Allowable Ampacity In Raceway 90°C
AWG/Kcmil	inch	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp
14	4.7	2.631	3.265	0.058	25
14	4.8	2.631	3.265	0.058	25
14	5.1	2.631	3.265	0.058	20
14	5.3	2.631	3.265	0.058	20
14	5.6	2.631	3.265	0.058	20
14	5.6	2.631	3.265	0.058	18
14	6.1	2.631	3.265	0.058	18
14	6.7	2.631	3.265	0.058	12
14	6.9	2.631	3.265	0.058	12
14	7.4	2.631	3.265	0.058	12
14	7.6	2.631	3.265	0.058	12
14	8.2	2.631	3.265	0.058	12
14	8.8	2.631	3.265	0.058	11
14	9.2	2.631	3.265	0.058	11
12	4.9	1.662	2.063	0.054	30
12	5.1	1.662	2.063	0.054	30
12	5.4	1.662	2.063	0.054	24
12	5.7	1.662	2.063	0.054	24
12	6.2	1.662	2.063	0.054	24
12	6.2	1.662	2.063	0.054	21
12	6.5	1.662	2.063	0.054	21
12	7.2	1.662	2.063	0.054	15
12	7.4	1.662	2.063	0.054	15
12	8.2	1.662	2.063	0.054	15
12	8.9	1.662	2.063	0.054	15
12	9.6	1.662	2.063	0.054	14
10	5.3	1.04	1.291	0.05	40
10	5.5	1.04	1.291	0.05	40
10	5.8	1.04	1.291	0.05	32
10	6.7	1.04	1.291	0.05	32
10	7.1	1.04	1.291	0.05	28
10	7.9	1.04	1.291	0.05	20
10	8.4	1.04	1.291	0.05	20
10	9	1.04	1.291	0.05	20

* Inductive impedance is based on non-ferrous conduit with one diameter spacing center-to-center.

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Table 3 – Weights and Measurements (Metric)

Cond. Size	Strand	Diameter Over Conductor	Diameter Over Insulation	Insul. Thickness	Ground	Ground Size	Inner Jacket Thickness	Dia. Over Inner Jacket	Dia. Over Armour	Overall Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight
AWG/ Kcmil	No.	mm	mm	mm	No. x AWG	AWG	mm	mm	mm	mm	mm	kg/km	kg/km
14	7	1.80	3.33	0.76	1x14	14	1.27	9.35	14.68	1.14	16.97	58	362
14	7	1.80	3.33	0.76	1x14	14	1.27	9.88	15.21	1.14	17.50	77	400
14	7	1.80	3.33	0.76	1x14	14	1.27	10.74	16.08	1.14	18.36	97	446
14	7	1.80	3.33	0.76	1x14	14	1.27	11.68	17.02	1.14	19.30	116	494
14	7	1.80	3.33	0.76	1x14	14	1.27	12.67	18.01	1.14	20.29	135	543
14	7	1.80	3.33	0.76	1x14	14	1.27	12.67	18.01	1.14	20.29	155	571
14	7	1.80	3.33	0.76	1x14	14	1.65	14.48	19.81	1.14	22.10	176	609
14	7	1.80	3.33	0.76	1x14	14	1.65	16.76	22.10	1.14	24.38	214	710
14	7	1.80	3.33	0.76	1x14	14	1.65	17.30	22.63	1.14	24.92	253	775
14	7	1.80	3.33	0.76	1x14	14	1.65	19.13	24.46	1.14	26.75	311	894
14	7	1.80	3.33	0.76	1x14	14	1.65	20.09	25.43	1.14	27.71	390	1024
14	7	1.80	3.33	0.76	1x14	14	2.16	22.15	27.48	1.14	29.77	409	1033
14	7	1.80	3.33	0.76	1x14	14	2.16	24.43	29.77	1.14	32.05	507	1213
14	7	1.80	3.33	0.76	1x14	14	2.16	25.81	31.14	1.14	33.43	604	1372
12	7	2.26	3.78	0.76	1x14	14	1.27	10.26	15.60	1.14	17.88	79	406
12	7	2.26	3.78	0.76	1x14	14	1.27	10.87	16.21	1.14	18.49	109	457
12	7	2.26	3.78	0.76	1x14	14	1.27	11.86	17.20	1.14	19.48	138	518
12	7	2.26	3.78	0.76	1x14	14	1.27	12.90	18.24	1.14	20.52	170	582
12	7	2.26	3.78	0.76	1x14	14	1.65	14.81	20.14	1.14	22.43	199	631
12	7	2.26	3.78	0.76	1x14	14	1.65	14.81	20.14	1.14	22.43	229	670
12	7	2.26	3.78	0.76	1x14	14	1.65	15.98	21.31	1.14	23.60	259	734
12	7	2.26	3.78	0.76	1x14	14	1.65	18.59	23.93	1.14	26.21	320	866
12	7	2.26	3.78	0.76	1x14	14	1.65	19.20	24.54	1.14	26.82	379	957
12	7	2.26	3.78	0.76	1x14	14	2.16	22.30	27.64	1.14	29.92	470	1080
12	7	2.26	3.78	0.76	1x14	14	2.16	24.56	29.90	1.14	32.18	621	1319
12	7	2.26	3.78	0.76	1x14	14	2.16	27.18	32.51	1.14	34.80	771	1561
10	7	2.87	4.39	0.76	1x12	12	1.27	11.48	16.81	1.14	19.10	125	481
10	7	2.87	4.39	0.76	1x12	12	1.27	12.19	17.53	1.14	19.81	173	557
10	7	2.87	4.39	0.76	1x12	12	1.27	13.33	18.67	1.14	20.96	222	640
10	7	2.87	4.39	0.76	1x12	12	1.65	16.64	21.97	1.14	24.26	317	798
10	7	2.87	4.39	0.76	1x12	12	1.65	18.01	23.34	1.14	25.63	414	943
10	7	2.87	4.39	0.76	1x12	12	1.65	21.03	26.37	1.14	28.65	510	1125
10	7	2.87	4.39	0.76	1x12	12	2.16	22.76	28.09	1.14	30.38	606	1217
10	7	2.87	4.39	0.76	1x12	12	2.16	25.17	30.51	1.14	32.79	750	1439

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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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Table 4 – Electrical and Engineering Data (Metric)

Cond. Size	Min Bending Radius	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance @ 60Hz	Allowable Ampacity In Raceway 90°C
AWG/Kcmil	mm	Ω/km	Ω/km	Ω/km	Amp
14	119.38	8.6319	10.71	0.1903	25
14	121.92	8.6319	10.71	0.1903	25
14	129.54	8.6319	10.71	0.1903	20
14	134.62	8.6319	10.71	0.1903	20
14	142.24	8.6319	10.71	0.1903	20
14	142.24	8.6319	10.71	0.1903	18
14	154.94	8.6319	10.71	0.1903	18
14	170.18	8.6319	10.71	0.1903	12
14	175.26	8.6319	10.71	0.1903	12
14	187.96	8.6319	10.71	0.1903	12
14	193.04	8.6319	10.71	0.1903	12
14	208.28	8.6319	10.71	0.1903	12
14	223.52	8.6319	10.71	0.1903	11
14	233.68	8.6319	10.71	0.1903	11
12	124.46	5.4528	6.77	0.1772	30
12	129.54	5.4528	6.77	0.1772	30
12	137.16	5.4528	6.77	0.1772	24
12	144.78	5.4528	6.77	0.1772	24
12	157.48	5.4528	6.77	0.1772	24
12	157.48	5.4528	6.77	0.1772	21
12	165.10	5.4528	6.77	0.1772	21
12	182.88	5.4528	6.77	0.1772	15
12	187.96	5.4528	6.77	0.1772	15
12	208.28	5.4528	6.77	0.1772	15
12	226.06	5.4528	6.77	0.1772	15
12	243.84	5.4528	6.77	0.1772	14
10	134.62	3.4121	4.24	0.1640	40
10	139.70	3.4121	4.24	0.1640	40
10	147.32	3.4121	4.24	0.1640	32
10	170.18	3.4121	4.24	0.1640	32
10	180.34	3.4121	4.24	0.1640	28
10	200.66	3.4121	4.24	0.1640	20
10	213.36	3.4121	4.24	0.1640	20
10	228.60	3.4121	4.24	0.1640	20

* Inductive impedance is based on non-ferrous conduit with one diameter spacing center-to-center.

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