

CSA TECK 90 600V PVC 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

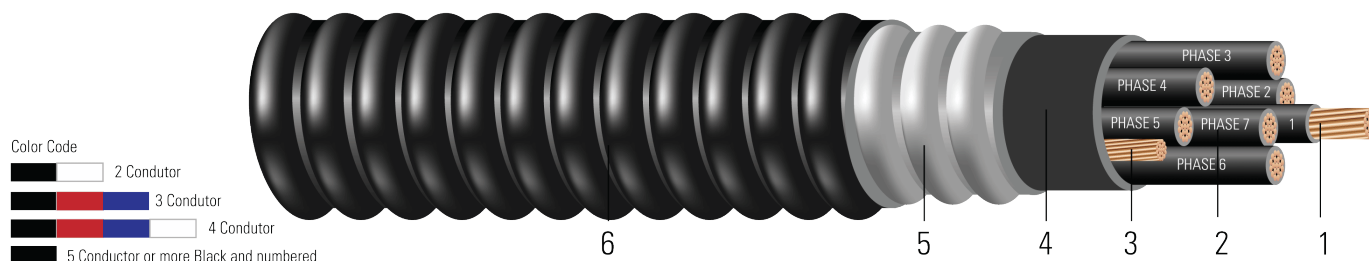


Image not to scale. See Table 1 for dimensions.

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 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, 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.

- -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 LTGG [-40°C] - as per C68.10 - for Cold Bend and Impact rating
- CSA HL - for Hazardous Locations rating
- CSA SUN RES - for Sunlight Resistant rating
- CSA AG14 - Acid Gas Compliance
- IEEE 383 Flame Test (70,000 btu)
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test



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SAMPLE PRINT LEGEND:

{SQMTR} SOUTHWIRE {CSA} LL90458 X/C XX AWG CU TECK 90 XLPE -40°C FT4 AG14 SUN RES 90°C 600V HL USA

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Strand	Insul. Thickness	Ground	Inner Jacket Thickness	Dia. Over Armour	Overall Jacket Thickness	Approx. OD	Approx. Weight	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity In Raceway 90°C†
	AWG/Kcmil		No.	mil	No. x AWG	mil	inch	mil	inch	lb/1000ft	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp
562239	14	2	7	30	1x14	50	0.570	45	0.660	196	4.6	65	2.631	3.170	0.058	25
561780	14	3	7	30	1x14	50	0.591	45	0.681	220	4.7	98	2.631	3.170	0.058	25
561781	14	4	7	30	1x14	50	0.625	45	0.715	247	5.0	131	2.631	3.170	0.058	20
561788	14	5	7	30	1x14	50	0.663	45	0.753	276	5.2	164	2.631	3.170	0.058	20
562248	14	6	7	30	1x14	50	0.702	45	0.792	305	5.5	197	2.631	3.170	0.058	20
561789	14	7	7	30	1x14	65	0.702	45	0.792	324	5.5	230	2.631	3.170	0.058	17
562254	14	8	7	30	1x14	65	0.774	45	0.864	377	6.0	263	2.631	3.170	0.058	17
562258	14	10	7	30	1x14	65	0.866	45	0.956	442	6.6	328	2.631	3.170	0.058	12
561790	14	12	7	30	1x14	65	0.887	45	0.977	483	6.8	394	2.631	3.170	0.058	12
562263	14	15	7	30	1x14	65	0.954	45	1.044	556	7.3	493	2.631	3.170	0.058	12
561791	14	19	7	30	1x14	85	1.109	45	1.199	697	8.3	624	2.631	3.170	0.058	12
562269	14	20	7	30	1x14	85	1.136	45	1.226	724	8.5	657	2.631	3.170	0.058	12
561778	14	25	7	30	1x14	85	1.283	45	1.373	903	9.6	822	2.631	3.170	0.058	11
562275	14	30	7	30	1x14	85	1.338	45	1.428	1012	9.9	986	2.631	3.170	0.058	11
561792	12	2	7	30	1x14	50	0.605	45	0.695	222	4.8	104	1.662	2.002	0.054	30
561793	12	3	7	30	1x14	50	0.629	45	0.719	256	5.0	156	1.662	2.002	0.054	30
561794	12	4	7	30	1x14	50	0.667	45	0.757	293	5.2	208	1.662	2.002	0.054	24
589296	12	5	7	30	1x14	65	0.710	45	0.800	332	5.6	261	1.662	2.002	0.054	24
567116	12	6	7	30	1x14	65	0.786	45	0.876	395	6.1	313	1.662	2.002	0.054	24
584397	12	7	7	30	1x14	65	0.786	45	0.876	422	6.1	365	1.662	2.002	0.054	21
568599	12	8	7	30	1x14	65	0.833	45	0.923	463	6.4	417	1.662	2.002	0.054	21
563506	12	10	7	30	1x14	65	0.936	45	1.026	549	7.1	522	1.662	2.002	0.054	15
561796	12	12	7	30	1x14	65	0.954	45	1.044	605	7.3	626	1.662	2.002	0.054	15
563511	12	15	7	30	1x14	85	1.195	45	1.285	816	8.9	783	1.662	2.002	0.054	15
563515	12	20	7	30	1x14	85	1.285	45	1.375	981	9.6	1044	1.662	2.002	0.054	15
589299	12	25	7	30	1x14	85	1.389	45	1.479	1156	10.3	1306	1.662	2.002	0.054	13
587679	12	30	7	30	1x14	85	1.425	45	1.515	1295	10.6	1567	1.662	2.002	0.054	13
562290	10	2	7	30	1x12	50	0.653	45	0.743	270	5.2	166	1.040	1.253	0.050	40
561797	10	3	7	30	1x12	50	0.680	45	0.770	319	5.3	249	1.040	1.253	0.050	40
561798	10	4	7	30	1x12	65	0.725	45	0.815	371	5.7	332	1.040	1.253	0.050	32
567109	10	6	7	30	1x12	65	0.858	45	0.948	505	6.6	498	1.040	1.253	0.050	32
584443	10	8	7	30	1x12	65	0.918	45	1.008	604	7.0	664	1.040	1.253	0.050	28
567096	10	10	7	30	1x12	85	1.142	45	1.232	777	8.6	830	1.040	1.253	0.050	20
589343	10	12	7	30	1x12	85	1.211	45	1.301	911	9.1	996	1.040	1.253	0.050	20
567102	10	15	7	30	1x12	85	1.307	45	1.397	1067	9.7	1245	1.040	1.253	0.050	20



All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

* 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



Table 2 – Weights and Measurements (Metric)

Stock Number	Cond. Size	Cond. Number	Strand	Insul. Thickness	Ground	Inner Jacket Thickness	Dia. Over Armour	Jacket Thickness ¹	Approx. OD	Approx. Weight	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity In Raceway 90°C
	AWG/Kcmil		No.	mm	No. x AWG	mm	mm	mm	mm	kg/km	mm	newton	Ω/km	Ω/km	Ω/km	Amp
562239	14	2	7	0.76	1x14	1.27	14.48	1.14	16.76	292	116.84	289	8.63	10.40	0.1903	25
561780	14	3	7	0.76	1x14	1.27	15.01	1.14	17.30	327	119.38	436	8.63	10.40	0.1903	25
561781	14	4	7	0.76	1x14	1.27	15.88	1.14	18.16	368	127.00	583	8.63	10.40	0.1903	20
561788	14	5	7	0.76	1x14	1.27	16.84	1.14	19.13	411	132.08	730	8.63	10.40	0.1903	20
562248	14	6	7	0.76	1x14	1.27	17.83	1.14	20.12	454	139.70	877	8.63	10.40	0.1903	20
561789	14	7	7	0.76	1x14	1.65	17.83	1.14	20.12	482	139.70	1024	8.63	10.40	0.1903	17
562254	14	8	7	0.76	1x14	1.65	19.66	1.14	21.95	561	152.40	1170	8.63	10.40	0.1903	17
562258	14	10	7	0.76	1x14	1.65	22.00	1.14	24.28	658	167.64	1460	8.63	10.40	0.1903	12
561790	14	12	7	0.76	1x14	1.65	22.53	1.14	24.82	719	172.72	1753	8.63	10.40	0.1903	12
562263	14	15	7	0.76	1x14	1.65	24.23	1.14	26.52	827	185.42	2194	8.63	10.40	0.1903	12
561791	14	19	7	0.76	1x14	2.16	28.17	1.14	30.45	1037	210.82	2777	8.63	10.40	0.1903	12
562269	14	20	7	0.76	1x14	2.16	28.85	1.14	31.14	1077	215.90	2924	8.63	10.40	0.1903	12
561778	14	25	7	0.76	1x14	2.16	32.59	1.14	34.87	1344	243.84	3658	8.63	10.40	0.1903	11
562275	14	30	7	0.76	1x14	2.16	33.99	1.14	36.27	1506	251.46	4388	8.63	10.40	0.1903	11
561792	12	2	7	0.76	1x14	1.27	15.37	1.14	17.65	330	121.92	463	5.45	6.57	0.1772	30
561793	12	3	7	0.76	1x14	1.27	15.98	1.14	18.26	381	127.00	694	5.45	6.57	0.1772	30
561794	12	4	7	0.76	1x14	1.27	16.94	1.14	19.23	436	132.08	926	5.45	6.57	0.1772	24
589296	12	5	7	0.76	1x14	1.65	18.03	1.14	20.32	494	142.24	1161	5.45	6.57	0.1772	24
567116	12	6	7	0.76	1x14	1.65	19.96	1.14	22.25	588	154.94	1393	5.45	6.57	0.1772	24
584397	12	7	7	0.76	1x14	1.65	19.96	1.14	22.25	628	154.94	1624	5.45	6.57	0.1772	21
568599	12	8	7	0.76	1x14	1.65	21.16	1.14	23.44	689	162.56	1856	5.45	6.57	0.1772	21
563506	12	10	7	0.76	1x14	1.65	23.77	1.14	26.06	817	180.34	2323	5.45	6.57	0.1772	15
561796	12	12	7	0.76	1x14	1.65	24.23	1.14	26.52	900	185.42	2786	5.45	6.57	0.1772	15
563511	12	15	7	0.76	1x14	2.16	30.35	1.14	32.64	1214	226.06	3484	5.45	6.57	0.1772	15
563515	12	20	7	0.76	1x14	2.16	32.64	1.14	34.93	1460	243.84	4646	5.45	6.57	0.1772	15
589299	12	25	7	0.76	1x14	2.16	35.28	1.14	37.57	1720	261.62	5812	5.45	6.57	0.1772	13
587679	12	30	7	0.76	1x14	2.16	36.20	1.14	38.48	1927	269.24	6973	5.45	6.57	0.1772	13
562290	10	2	7	0.76	1x12	1.27	16.59	1.14	18.87	402	132.08	739	3.41	4.11	0.1640	40
561797	10	3	7	0.76	1x12	1.27	17.27	1.14	19.56	475	134.62	1108	3.41	4.11	0.1640	40
561798	10	4	7	0.76	1x12	1.65	18.42	1.14	20.70	552	144.78	1477	3.41	4.11	0.1640	32
567109	10	6	7	0.76	1x12	1.65	21.79	1.14	24.08	752	167.64	2216	3.41	4.11	0.1640	32
584443	10	8	7	0.76	1x12	1.65	23.32	1.14	25.60	899	177.80	2955	3.41	4.11	0.1640	28
567096	10	10	7	0.76	1x12	2.16	29.01	1.14	31.29	1156	218.44	3694	3.41	4.11	0.1640	20
589343	10	12	7	0.76	1x12	2.16	30.76	1.14	33.05	1356	231.14	4432	3.41	4.11	0.1640	20
567102	10	15	7	0.76	1x12	2.16	33.20	1.14	35.48	1588	246.38	5540	3.41	4.11	0.1640	20

All dimensions are nominal and subject to normal manufacturing tolerances

◇ Cable marked with this symbol is a standard stock item



* 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

