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

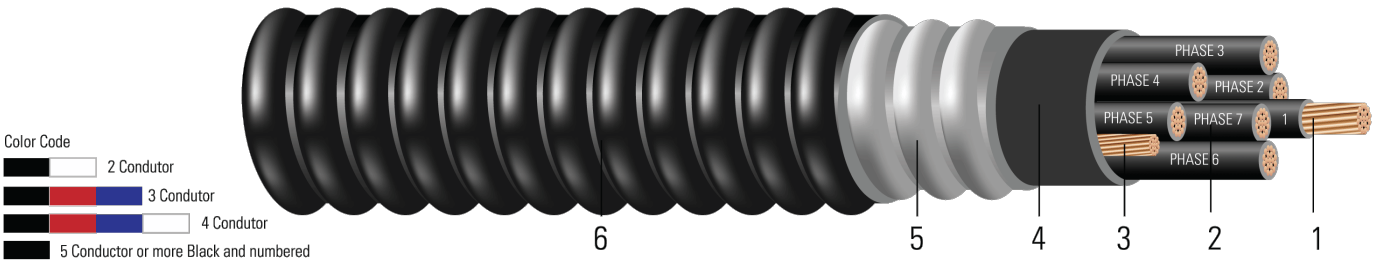


Image not to scale. See Table 1 for dimensions.

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

Copyright © 2026 Southwire Company, LLC. All Rights Reserved
UPDATED: Oct. 23, 2026, 11:16 a.m.UTC REVISION: 1.000.003

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	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
562239	14	7	0.071	0.134	30	1x14	14	50	0.374	0.573	45	0.663	38	197
561780	14	7	0.071	0.134	30	1x14	14	50	0.395	0.594	45	0.684	51	220
561781	14	7	0.071	0.134	30	1x14	14	50	0.43	0.628	45	0.718	64	248
561788	14	7	0.071	0.134	30	1x14	14	50	0.468	0.667	45	0.757	77	276
562248	14	7	0.071	0.133	30	1x14	14	50	0.505	0.703	45	0.793	90	304
561789	14	7	0.071	0.134	30	1x14	14	50	0.508	0.707	45	0.797	103	325
562254	14	7	0.071	0.134	30	1x14	14	65	0.58	0.78	45	0.87	115	377
562258	14	7	0.071	0.133	30	1x14	14	65	0.668	0.866	45	0.956	141	440
561790	14	7	0.071	0.134	30	1x14	14	65	0.693	0.893	45	0.983	167	484
562263	14	7	0.071	0.134	30	1x14	14	65	0.767	0.954	45	1.044	205	555
561791	14	7	0.071	0.134	30	1x14	14	65	0.806	1.116	45	1.206	256	699
562269	14	7	0.071	0.134	30	1x14	14	85	0.888	1.136	45	1.226	269	724
561778	14	7	0.071	0.134	30	1x14	14	85	0.98	1.286	45	1.376	334	902
562275	14	7	0.071	0.134	30	1x14	14	85	1.035	1.347	45	1.437	399	1014
561792	12	7	0.089	0.152	30	1x14	14	50	0.41	0.609	45	0.699	54	224
561793	12	7	0.089	0.152	30	1x14	14	50	0.434	0.633	45	0.723	74	257
561794	12	7	0.089	0.152	30	1x14	14	50	0.474	0.672	45	0.762	94	294
589296	12	7	0.089	0.152	30	1x14	14	50	0.516	0.715	45	0.805	115	333
567116	12	7	0.089	0.152	30	1x14	14	65	0.592	0.792	45	0.882	135	395
584397	12	7	0.089	0.152	30	1x14	14	65	0.592	0.792	45	0.882	155	425
568599	12	7	0.089	0.152	30	1x14	14	65	0.639	0.839	45	0.929	176	464
563506	12	7	0.089	0.152	30	1x14	14	65	0.744	0.944	45	1.034	216	550
561796	12	7	0.089	0.152	30	1x14	14	65	0.768	0.954	45	1.044	257	604
563511	12	7	0.089	0.152	30	1x14	14	85	0.892	1.204	45	1.294	318	818
563515	12	7	0.089	0.152	30	1x14	14	85	0.983	1.295	45	1.385	420	984
589299	12	7	0.089	0.152	30	1x14	14	85	1.088	1.4	45	1.49	524	1159
587679	12	7	0.089	0.152	30	1x14	14	85	1.15	1.425	45	1.515	627	1298
562290	10	7	0.113	0.176	30	1x12	12	50	0.458	0.657	45	0.747	85	273
561797	10	7	0.113	0.176	30	1x12	12	50	0.486	0.685	45	0.775	117	320
561798	10	7	0.113	0.176	30	1x12	12	65	0.562	0.73	45	0.82	150	372
567109	10	7	0.113	0.176	30	1x12	12	65	0.664	0.864	45	0.954	215	505
584443	10	7	0.113	0.176	30	1x12	12	65	0.719	0.925	45	1.015	279	609
567096	10	7	0.113	0.176	30	1x12	12	85	0.88	1.184	45	1.274	344	816
589343	10	7	0.113	0.176	30	1x12	12	85	0.908	1.22	45	1.31	409	913
567102	10	7	0.113	0.176	30	1x12	12	85	1.005	1.317	45	1.407	506	1069

All dimensions are nominal and subject to normal manufacturing tolerances

Copyright © 2026 Southwire Company, LLC. All Rights Reserved

◊ 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
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	4.6	2.631	3.265	0.058	25
14	4.8	2.631	3.265	0.058	25
14	5	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	7.3	2.631	3.265	0.058	12
14	8.4	2.631	3.265	0.058	12
14	8.6	2.631	3.265	0.058	12
14	9.6	2.631	3.265	0.058	11
14	10.1	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	5.3	1.662	2.063	0.054	24
12	5.6	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	7.3	1.662	2.063	0.054	15
12	9.1	1.662	2.063	0.054	15
12	9.7	1.662	2.063	0.054	15
12	10.4	1.662	2.063	0.054	14
12	10.6	1.662	2.063	0.054	14
10	5.2	1.04	1.291	0.05	40
10	5.4	1.04	1.291	0.05	40
10	5.7	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	8.9	1.04	1.291	0.05	20
10	9.2	1.04	1.291	0.05	20
10	9.8	1.04	1.291	0.05	20

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

Copyright © 2026 Southwire Company, LLC. All Rights Reserved

Table 3 – Weights and Measurements (Metric)

Stock Number	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
562239	14	7	1.80	3.40	0.76	1x14	14	1.27	9.50	14.55	1.14	16.84	57	293
561780	14	7	1.80	3.40	0.76	1x14	14	1.27	10.03	15.09	1.14	17.37	76	327
561781	14	7	1.80	3.40	0.76	1x14	14	1.27	10.92	15.95	1.14	18.24	95	369
561788	14	7	1.80	3.40	0.76	1x14	14	1.27	11.89	16.94	1.14	19.23	115	411
562248	14	7	1.80	3.38	0.76	1x14	14	1.27	12.83	17.86	1.14	20.14	134	452
561789	14	7	1.80	3.40	0.76	1x14	14	1.27	12.90	17.96	1.14	20.24	153	484
562254	14	7	1.80	3.40	0.76	1x14	14	1.65	14.73	19.81	1.14	22.10	171	561
562258	14	7	1.80	3.38	0.76	1x14	14	1.65	16.97	22.00	1.14	24.28	210	655
561790	14	7	1.80	3.40	0.76	1x14	14	1.65	17.60	22.68	1.14	24.97	249	720
562263	14	7	1.80	3.40	0.76	1x14	14	1.65	19.48	24.23	1.14	26.52	305	826
561791	14	7	1.80	3.40	0.76	1x14	14	1.65	20.47	28.35	1.14	30.63	381	1040
562269	14	7	1.80	3.40	0.76	1x14	14	2.16	22.56	28.85	1.14	31.14	400	1077
561778	14	7	1.80	3.40	0.76	1x14	14	2.16	24.89	32.66	1.14	34.95	497	1342
562275	14	7	1.80	3.40	0.76	1x14	14	2.16	26.29	34.21	1.14	36.50	594	1509
561792	12	7	2.26	3.86	0.76	1x14	14	1.27	10.41	15.47	1.14	17.75	80	333
561793	12	7	2.26	3.86	0.76	1x14	14	1.27	11.02	16.08	1.14	18.36	110	382
561794	12	7	2.26	3.86	0.76	1x14	14	1.27	12.04	17.07	1.14	19.35	140	438
589296	12	7	2.26	3.86	0.76	1x14	14	1.27	13.11	18.16	1.14	20.45	171	496
567116	12	7	2.26	3.86	0.76	1x14	14	1.65	15.04	20.12	1.14	22.40	201	588
584397	12	7	2.26	3.86	0.76	1x14	14	1.65	15.04	20.12	1.14	22.40	231	632
568599	12	7	2.26	3.86	0.76	1x14	14	1.65	16.23	21.31	1.14	23.60	262	691
563506	12	7	2.26	3.86	0.76	1x14	14	1.65	18.90	23.98	1.14	26.26	321	818
561796	12	7	2.26	3.86	0.76	1x14	14	1.65	19.51	24.23	1.14	26.52	382	899
563511	12	7	2.26	3.86	0.76	1x14	14	2.16	22.66	30.58	1.14	32.87	473	1217
563515	12	7	2.26	3.86	0.76	1x14	14	2.16	24.97	32.89	1.14	35.18	625	1464
589299	12	7	2.26	3.86	0.76	1x14	14	2.16	27.64	35.56	1.14	37.85	780	1725
587679	12	7	2.26	3.86	0.76	1x14	14	2.16	29.21	36.20	1.14	38.48	933	1932
562290	10	7	2.87	4.47	0.76	1x12	12	1.27	11.63	16.69	1.14	18.97	126	406
561797	10	7	2.87	4.47	0.76	1x12	12	1.27	12.34	17.40	1.14	19.69	174	476
561798	10	7	2.87	4.47	0.76	1x12	12	1.65	14.27	18.54	1.14	20.83	223	554
567109	10	7	2.87	4.47	0.76	1x12	12	1.65	16.87	21.95	1.14	24.23	320	752
584443	10	7	2.87	4.47	0.76	1x12	12	1.65	18.26	23.50	1.14	25.78	415	906
567096	10	7	2.87	4.47	0.76	1x12	12	2.16	22.35	30.07	1.14	32.36	512	1214
589343	10	7	2.87	4.47	0.76	1x12	12	2.16	23.06	30.99	1.14	33.27	609	1359
567102	10	7	2.87	4.47	0.76	1x12	12	2.16	25.53	33.45	1.14	35.74	753	1591

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

Copyright © 2026 Southwire Company, LLC. All Rights Reserved

* 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 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	116.84	8.6319	10.71	0.1903	25
14	121.92	8.6319	10.71	0.1903	25
14	127.00	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	185.42	8.6319	10.71	0.1903	12
14	213.36	8.6319	10.71	0.1903	12
14	218.44	8.6319	10.71	0.1903	12
14	243.84	8.6319	10.71	0.1903	11
14	256.54	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	134.62	5.4528	6.77	0.1772	24
12	142.24	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	185.42	5.4528	6.77	0.1772	15
12	231.14	5.4528	6.77	0.1772	15
12	246.38	5.4528	6.77	0.1772	15
12	264.16	5.4528	6.77	0.1772	14
12	269.24	5.4528	6.77	0.1772	14
10	132.08	3.4121	4.24	0.1640	40
10	137.16	3.4121	4.24	0.1640	40
10	144.78	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	226.06	3.4121	4.24	0.1640	20
10	233.68	3.4121	4.24	0.1640	20
10	248.92	3.4121	4.24	0.1640	20

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

Copyright © 2026 Southwire Company, LLC. All Rights Reserved