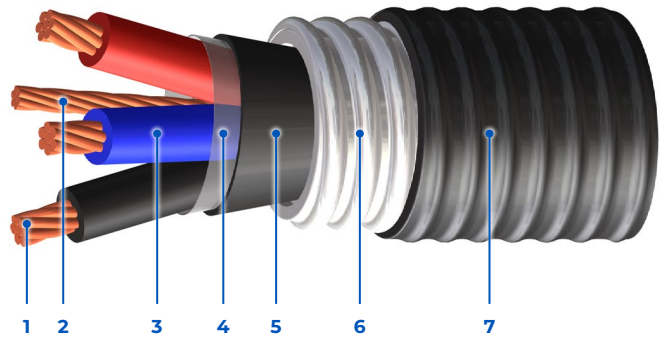


CSA TECK90 Armoured Control, Multi-Conductor, 1000 V

Unshielded armoured control cable is used for operation of control automation equipment. Interlocked armour replaces the use of conduit for mechanical protection. Cable can be directly buried, installed in raceways, including cable tray in wet or dry environments. Cable is suitable for use in outdoor exposed applications and is rated for damp or dry locations in -40°C (-40°F) environments.

Standards:



- 1 – Strand Bare (ASTM B8) Annealed Copper Conductors
- 2 – Grounding/Bonding Conductor
- 3 – XLPE (RW90 Rated) Insulated Conductors
- 4 – Polyester Separator Tape

- 5 – FR LAG PVC Inner Protective Jacket
- 6 – Aluminum Interlocked Armour (AIA)
- 7 – FR LAG PVC Outer Protective Jacket

Product Construction

Insulation:

- XLPE (RW90 rated) rated: 90°C wet/dry

Armour:

- Aluminum Interlocked Armour (AIA) (standard)
- Steel Interlocked Armour (SIA) (optional)

Jacket:

- FR LAG PVC (AG14 rated) inner/outer black jacket rated: 90°C to -40°C

Available in:

- Variable Frequency Drive (VFD)
- Verlock (for mineshaft applications)
- Custom colour coding
- Custom insulation/jacket colours
- Composite constructions

Certification/Compliances

- CSA C22.2 NO. 131, Teck 90 Cables (Teck 90)
- CSA C22.2 NO. 174, Cables & Cable Glands for use in Hazardous Locations
- CSA C22.2 NO. 38, Thermoset Insulated Wires & Cables (XLPE)
- CSA FT4, UL 1685 FT4, Vertical Tray Flame Test rated
- IEEE 383 & 1202 (70,000 BTU/hr), Vertical Flame Test rated
- ICEA T-30-520 (70,000 BTU/hr), Vertical Flame Test rated
- XLPE (RW90 rated), 90°C wet/dry
- UV sunlight resistant "SUN RES" (all colours)
- Direct burial rated

- -40°C cold bend/ impact rated
- Rated for use in hazardous locations:
 - Class I Zone 0 (Intrinsically Safe cables only)
 - Class I Zone 1 (Div 1)
 - Class I Zone 2 (Div 2)
 - Class II Zone 20, 21 (Div 1)
 - Class II Zone 22 (Div 2)

Colour Coding

- 2C – Black & white
- 3C – Black, red & blue
- 4C – Black, red, blue & white
- 5C to 50C – Black # coded

1000 V

Voltage
(Optional: 600 V)

CSA Type TECK 90

Control

CSA TECK90 Armoured Control, Multi-Conductor, 1000 V

PART NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR SIZE <i>(AWG/ kcmil)</i>	GROUND WIRE SIZE <i>(AWG/ kcmil)</i>	OD OVER INNER JACKET <i>(in/mm)</i>	NORMAL DIAMETERS		CABLE WEIGHT <i>(lbs/1000ft) (kg/km)</i>	AMPACITY <i>(30°C ambient)</i>	MAX PULLING TENSION (PULLING EYE) <i>(lb/kg)</i>	MIN BEND RADIUS (PULL) <i>(in/mm)</i>
					OVER ARMOUR <i>(in/mm)</i>	OVERALL CABLE <i>(in/mm)</i>				
80210M140200700	2	14	14	0.432 / 11.0	0.672 / 17.1	0.764 / 19.4	231 / 344	25	66 / 30	13.8 / 349
80210M140300700	3	14	14	0.470 / 11.9	0.710 / 18.0	0.802 / 20.4	262 / 391	25	99 / 45	14.4 / 366
80210M140400700	4	14	14	0.510 / 13.0	0.750 / 19.1	0.842 / 21.4	295 / 440	20	132 / 60	15.2 / 385
80210M140500700	5	14	14	0.576 / 14.6	0.816 / 20.7	0.908 / 23.1	351 / 523	20	165 / 75	16.3 / 415
80210M140600700	6	14	14	0.625 / 15.9	0.865 / 22.0	0.957 / 24.3	390 / 581	20	197 / 90	17.2 / 438
80210M140700700	7	14	14	0.674 / 17.1	0.914 / 23.2	1.006 / 25.6	430 / 640	17.5	230 / 104	18.1 / 460
80210M140800700	8	14	14	0.724 / 18.4	0.964 / 24.5	1.056 / 26.8	472 / 702	17.5	263 / 119	19 / 483
80210M141000700	10	14	14	0.788 / 20.0	1.028 / 26.1	1.120 / 28.5	573 / 853	17.5	329 / 149	20.2 / 512
80210M141200700	12	14	14	0.813 / 20.6	1.053 / 26.7	1.145 / 29.1	620 / 923	17.5	395 / 179	20.6 / 523
80210M141500700	15	14	14	0.918 / 23.3	1.158 / 29.4	1.250 / 31.7	749 / 1115	17.5	494 / 224	22.5 / 571
80210M142000700	20	14	14	1.040 / 26.4	1.280 / 32.5	1.372 / 34.9	904 / 1345	17.5	658 / 298	24.7 / 627
80210M142500700	25	14	14	1.154 / 29.3	1.394 / 35.4	1.486 / 37.7	1058 / 1575	15	823 / 373	26.7 / 679
80210M143000700	30	14	14	1.221 / 31.0	1.461 / 37.1	1.553 / 39.4	1177 / 1751	15	987 / 448	28 / 710
80210M144000700	40	14	14	1.366 / 34.7	1.606 / 40.8	1.714 / 43.5	1471 / 2188	15	1316 / 597	30.9 / 784
80210M145000700	50	14	14	1.519 / 38.6	1.759 / 44.7	1.867 / 47.4	1731 / 2577	12.5	1645 / 746	33.6 / 854
80210M120200700	2	12	14	0.468 / 11.9	0.708 / 18.0	0.800 / 20.3	260 / 386	30	104 / 47	14.4 / 366
80210M120300700	3	12	14	0.510 / 13.0	0.750 / 19.0	0.842 / 21.4	302 / 449	30	157 / 71	15.2 / 385
80210M120400700	4	12	14	0.585 / 14.9	0.825 / 21.0	0.917 / 23.3	368 / 548	24	209 / 95	16.5 / 419
80210M120500700	5	12	14	0.625 / 15.9	0.865 / 22.0	0.957 / 24.3	412 / 613	24	261 / 118	17.2 / 437
80210M120600700	6	12	14	0.679 / 17.3	0.919 / 23.3	1.011 / 25.7	462 / 688	24	313 / 142	18.2 / 462
80210M120700700	7	12	14	0.733 / 18.6	0.973 / 24.7	1.065 / 27.1	514 / 764	21	365 / 166	19.2 / 487
80210M120800700	8	12	14	0.789 / 20.1	1.029 / 26.2	1.121 / 28.5	612 / 910	21	418 / 189	20.2 / 513
80210M121000700	10	12	14	0.900 / 22.9	1.140 / 29.0	1.232 / 31.3	735 / 1094	21	522 / 237	22.2 / 563
80210M121200700	12	12	14	0.927 / 23.6	1.167 / 29.7	1.259 / 32.0	801 / 1193	21	626 / 284	22.7 / 576
80210M121500700	15	12	14	1.000 / 25.4	1.240 / 31.5	1.332 / 33.8	919 / 1368	21	783 / 355	24 / 609
80210M122000700	20	12	14	1.135 / 28.8	1.375 / 34.9	1.467 / 37.3	1121 / 1669	21	1044 / 474	26.4 / 671
80210M122500700	25	12	14	1.262 / 32.1	1.502 / 38.2	1.594 / 40.5	1325 / 1972	18	1305 / 592	28.7 / 729
80210M123000700	30	12	14	1.336 / 33.9	1.576 / 40.0	1.684 / 42.8	1517 / 2257	18	1566 / 710	30.3 / 770
80210M124000700	40	12	14	1.497 / 38.0	1.737 / 44.1	1.845 / 46.9	1880 / 2797	18	2088 / 947	33.2 / 844
80210M125000700	50	12	14	1.667 / 42.4	1.972 / 50.1	2.080 / 52.8	2325 / 3460	15	2610 / 1184	37.4 / 951

*Ampacity value based on Canadian Electrical Code, Version 2018, Table-2. Values are corrected according to Table-5C for number of Conductors.

CSA TECK90 Armoured Control, Multi-Conductor, 1000 V

PART NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR SIZE <i>(AWG/ kcmil)</i>	GROUND WIRE SIZE <i>(AWG/ kcmil)</i>	OD OVER INNER JACKET <i>(in/mm)</i>	NORMAL DIAMETERS		CABLE WEIGHT <i>(lbs/1000ft) (kg/km)</i>	AMPACITY <i>(30°C ambient)</i>	MAX PULLING TENSION (PULLING EYE) <i>(lb/kg)</i>	MIN BEND RADIUS (PULL) <i>(in/mm)</i>
					OVER ARMOUR <i>(in/mm)</i>	OVERALL CABLE <i>(in/mm)</i>				
80210M100200700	2	10	12	0.518 / 13.2	0.758 / 19.3	0.850 / 21.6	310 / 462	40	166 / 75	15.3 / 389
80210M100300700	3	10	12	0.595 / 15.1	0.835 / 21.2	0.927 / 23.6	391 / 581	40	249 / 113	16.7 / 424
80210M100400700	4	10	12	0.647 / 16.4	0.887 / 22.5	0.979 / 24.9	450 / 670	32	332 / 151	17.6 / 448
80210M100500700	5	10	12	0.692 / 17.6	0.932 / 23.7	1.024 / 26.0	511 / 760	32	415 / 188	18.4 / 468
80210M100600700	6	10	12	0.754 / 19.2	0.994 / 25.3	1.086 / 27.6	579 / 862	32	498 / 226	19.5 / 497
80210M100700700	7	10	12	0.816 / 20.7	1.056 / 26.8	1.148 / 29.2	693 / 1031	28	581 / 264	20.7 / 525
80210M100800700	8	10	12	0.920 / 23.4	1.160 / 29.5	1.252 / 31.8	812 / 1209	28	664 / 301	22.5 / 572
80210M101000700	10	10	12	1.000 / 25.4	1.240 / 31.5	1.332 / 33.8	924 / 1374	28	830 / 376	24 / 609
80210M101200700	12	10	12	1.031 / 26.2	1.271 / 32.3	1.363 / 34.6	1019 / 1516	28	996 / 452	24.5 / 623
80210M101500700	15	10	12	1.113 / 28.3	1.353 / 34.4	1.445 / 36.7	1181 / 1758	28	1245 / 565	26 / 661
80210M102000700	20	10	12	1.268 / 32.2	1.508 / 38.3	1.600 / 40.6	1460 / 2173	28	1660 / 753	28.8 / 731
80210M102500700	25	10	12	1.412 / 35.9	1.652 / 42.0	1.760 / 44.7	1767 / 2629	24	2075 / 941	31.7 / 805
80210M103000700	30	10	12	1.496 / 38.0	1.736 / 44.1	1.844 / 46.9	2004 / 2983	24	2490 / 1129	33.2 / 843
80210M104000700	40	10	12	1.680 / 42.7	1.985 / 50.4	2.093 / 53.2	2606 / 3878	24	3320 / 1506	37.7 / 957
80210M105000700	50	10	12	1.933 / 49.1	2.238 / 56.9	2.346 / 59.6	3241 / 4823	20	4150 / 1882	42.2 / 1073

*Ampacity value based on Canadian Electrical Code, Version 2018, Table-2. Values are corrected according to Table-5C for number of Conductors.