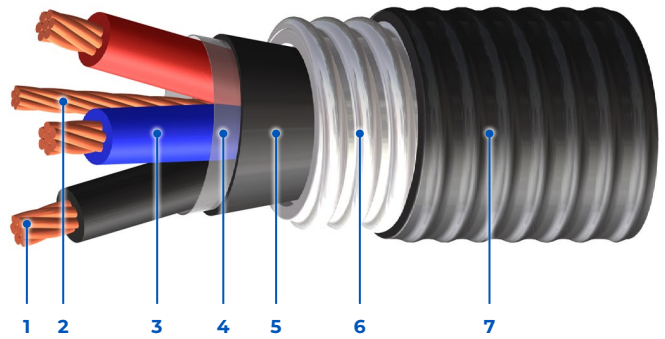


# CSA TECK90 Armoured Control, Multi-Conductor, 600 V

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
- HL 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

**600 V**

Voltage  
(Optional: 1000 V)

**CSA Type  
TECK 90**

Control

# CSA TECK90 Armoured Control, Multi-Conductor, 600 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>				
86210M140200700	2	14	14	0.372 / 9.5	0.612 / 15.5	0.704 / 17.9	206 / 307	25	66 / 30	12.7 / 322
86210M140300700	3	14	14	0.403 / 10.2	0.643 / 16.3	0.735 / 18.7	233 / 346	25	99 / 45	13.2 / 336
86210M140400700	4	14	14	0.436 / 11.1	0.676 / 17.2	0.768 / 19.5	260 / 387	20	132 / 60	13.8 / 351
86210M140500700	5	14	14	0.465 / 11.8	0.705 / 17.9	0.797 / 20.3	287 / 428	20	165 / 75	14.3 / 364
86210M140600700	6	14	14	0.505 / 12.8	0.745 / 18.9	0.837 / 21.3	319 / 474	20	197 / 90	15.1 / 383
86210M140700700	7	14	14	0.575 / 14.6	0.815 / 20.7	0.907 / 23.0	373 / 555	17.5	230 / 104	16.3 / 415
86210M140800700	8	14	14	0.616 / 15.7	0.856 / 21.7	0.948 / 24.1	407 / 605	17.5	263 / 119	17.1 / 433
86210M141000700	10	14	14	0.668 / 17.0	0.908 / 23.1	1.000 / 25.4	456 / 678	17.5	329 / 149	18 / 457
86210M141200700	12	14	14	0.688 / 17.5	0.928 / 23.6	1.020 / 25.9	494 / 735	17.5	395 / 179	18.4 / 466
86210M141500700	15	14	14	0.741 / 18.8	0.981 / 24.9	1.073 / 27.3	565 / 841	17.5	494 / 224	19.3 / 491
86210M142000700	20	14	14	0.841 / 21.4	1.081 / 27.5	1.173 / 29.8	732 / 1089	17.5	658 / 298	21.1 / 536
86210M142500700	25	14	14	0.974 / 24.7	1.214 / 30.8	1.306 / 33.2	904 / 1345	15	823 / 373	23.5 / 597
86210M143000700	30	14	14	1.028 / 26.1	1.268 / 32.2	1.360 / 34.6	1007 / 1499	15	987 / 448	24.5 / 622
86210M144000700	40	14	14	1.147 / 29.1	1.387 / 35.2	1.479 / 37.6	1231 / 1832	15	1316 / 597	26.6 / 676
86210M145000700	50	14	14	1.272 / 32.3	1.512 / 38.4	1.604 / 40.7	1451 / 2159	12.5	1645 / 746	28.9 / 733
86210M120200700	2	12	14	0.408 / 10.4	0.648 / 16.5	0.740 / 18.8	234 / 349	30	104 / 47	13.3 / 338
86210M120300700	3	12	14	0.443 / 11.3	0.683 / 17.3	0.775 / 19.7	270 / 402	30	157 / 71	13.9 / 354
86210M120400700	4	12	14	0.480 / 12.2	0.720 / 18.3	0.813 / 20.6	308 / 458	24	209 / 95	14.6 / 371
86210M120500700	5	12	14	0.514 / 13.1	0.754 / 19.1	0.846 / 21.5	345 / 513	24	261 / 118	15.2 / 387
86210M120600700	6	12	14	0.589 / 15.0	0.829 / 21.1	0.921 / 23.4	410 / 610	24	313 / 142	16.6 / 421
86210M120700700	7	12	14	0.634 / 16.1	0.874 / 22.2	0.966 / 24.5	454 / 676	21	365 / 166	17.4 / 442
86210M120800700	8	12	14	0.681 / 17.3	0.921 / 23.4	1.013 / 25.7	499 / 743	21	418 / 189	18.2 / 463
86210M121000700	10	12	14	0.740 / 18.8	0.980 / 24.9	1.072 / 27.2	566 / 842	21	522 / 237	19.3 / 490
86210M121200700	12	12	14	0.763 / 19.4	0.983 / 25.0	1.075 / 27.3	663 / 986	21	626 / 284	19.3 / 491
86210M121500700	15	12	14	0.823 / 20.9	1.063 / 27.0	1.155 / 29.3	765 / 1138	21	783 / 355	20.8 / 528
86210M122000700	20	12	14	0.976 / 24.8	1.216 / 30.9	1.308 / 33.2	985 / 1466	21	1044 / 474	23.5 / 598
86210M122500700	25	12	14	1.082 / 27.5	1.322 / 33.6	1.414 / 35.9	1161 / 1728	18	1305 / 592	25.5 / 646
86210M123000700	30	12	14	1.144 / 29.1	1.384 / 35.2	1.476 / 37.5	1308 / 1946	18	1566 / 710	26.6 / 675
86210M124000700	40	12	14	1.278 / 32.5	1.518 / 38.6	1.610 / 40.9	1624 / 2417	18	2088 / 947	29 / 736
86210M125000700	50	12	14	1.420 / 36.1	1.660 / 42.2	1.768 / 44.9	1960 / 2917	15	2610 / 1184	31.8 / 808

\*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, 600 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>				
86210M100200700	2	10	12	0.458 / 11.6	0.698 / 17.7	0.790 / 20.1	284 / 422	40	166 / 75	14.2 / 361
86210M100300700	3	10	12	0.498 / 12.7	0.739 / 18.8	0.831 / 21.1	335 / 498	40	249 / 113	14.9 / 380
86210M100400700	4	10	12	0.572 / 14.5	0.812 / 20.6	0.905 / 23.0	410 / 610	32	332 / 151	16.3 / 414
86210M100500700	5	10	12	0.611 / 15.5	0.851 / 21.6	0.943 / 24.0	464 / 690	32	415 / 188	17 / 431
86210M100600700	6	10	12	0.664 / 16.9	0.904 / 23.0	0.996 / 25.3	523 / 778	32	498 / 226	17.9 / 455
86210M100700700	7	10	12	0.717 / 18.2	0.957 / 24.3	1.049 / 26.6	583 / 868	28	581 / 264	18.9 / 480
86210M100800700	8	10	12	0.771 / 19.6	0.991 / 25.2	1.083 / 27.5	686 / 1021	28	664 / 301	19.5 / 495
86210M101000700	10	10	12	0.840 / 21.3	1.080 / 27.4	1.172 / 29.8	788 / 1172	28	830 / 376	21.1 / 536
86210M101200700	12	10	12	0.906 / 23.0	1.146 / 29.1	1.238 / 31.5	916 / 1363	28	996 / 452	22.3 / 566
86210M101500700	15	10	12	0.977 / 24.8	1.217 / 30.9	1.309 / 33.2	1065 / 1585	28	1245 / 565	23.6 / 598
86210M102000700	20	10	12	1.109 / 28.2	1.349 / 34.3	1.441 / 36.6	1314 / 1955	28	1660 / 753	25.9 / 659
86210M102500700	25	10	12	1.232 / 31.3	1.472 / 37.4	1.564 / 39.7	1564 / 2328	24	2075 / 941	28.2 / 715
86210M103000700	30	10	12	1.304 / 33.1	1.544 / 39.2	1.652 / 42.0	1806 / 2687	24	2490 / 1129	29.7 / 755
86210M104000700	40	10	12	1.461 / 37.1	1.701 / 43.2	1.809 / 45.9	2265 / 3370	24	3320 / 1506	32.6 / 827
86210M105000700	50	10	12	1.626 / 41.3	1.931 / 49.1	2.039 / 51.8	2805 / 4174	20	4150 / 1882	36.7 / 932

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