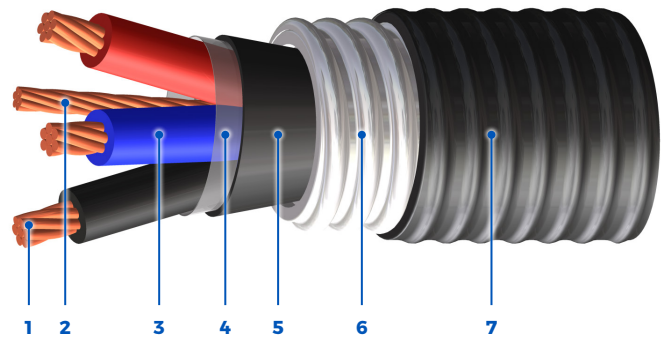


CSA Type TECK 90 Armoured Control, Multi-Conductor, 1000 V

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 – Stranded Bare Copper Conductors (Tin-coated Available)

2 – 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)
- Ribbed inner-jacketed core for vertical/mineshaft applications
- Custom insulation/jacket colours
- Composite constructions

Certification/Compliances

- CSA C22.2 No. 131, Type TECK 90 cable
- CSA C22.2 No. 174, Cables and cable glands for use in hazardous locations
- CSA C22.2 No. 38, Thermoset-insulated wires and cables
- CSA C22.2 No. 2556/UL 2556 FT4, Vertical Tray Flame Test rated
- IEEE 383/1202 (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:
 - Zone 0 (Class 1, Division 1) (Intrinsically Safe circuits only)
 - Zone 1 (Class I, Division 1), Zone 2 (Class I, Division 2)
 - Zone 20 & 21 (Class II & III, Division 1), Zone 22 (Class II & III, Division 2)

Colour Coding

- 2C – Black & white
- 3C – Black, red & blue
- 4C – Black, red, blue & white
- 5C and greater – Black, number-coded with white ink

1000 V

Voltage
(Optional: 600 V)

CSA Type TECK 90

Control

CSA Type TECK 90 Armoured Control, Multi-Conductor, 1000 V

PART NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR SIZE	BONDING CONDUCTOR SIZE	NOMINAL DIAMETER			CABLE WEIGHT	AMPACITY*	MAX PULLING TENSION (PULLING EYE)	MIN BEND RADIUS (PULL)
				OVER INNER JACKET	OVER ARMOUR	OVERALL CABLE				
		AWG	AWG	in. mm	in. mm	in. mm	lb/1000ft kg/km	30°C ambient	lb kg	in. mm
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	298 444	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	388 577	20	197 90	17.2 438
80210M140700700	7	14	14	0.674 17.1	0.914 23.2	1.006 25.6	428 637	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	19.0 483
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	28.0 710
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	1729 2573	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	410 610	24	261 118	17.2 437
80210M120600700	6	12	14	0.679 17.3	0.919 23.3	1.011 25.7	460 684	24	313 142	18.2 462
80210M120700700	7	12	14	0.733 18.6	0.973 24.7	1.065 27.1	512 762	21	365 166	19.2 487
80210M120800700	8	12	14	0.789 20.1	1.029 26.2	1.121 28.5	609 907	21	418 189	20.2 513
80210M121000700	10	12	14	0.900 22.9	1.140 29.0	1.232 31.3	731 1088	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	24.0 609
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	1878 2794	18	2088 947	33.2 844
80210M125000700	50	12	14	1.667 42.4	1.972 50.1	2.080 52.8	2322 3455	15	2610 1184	37.4 951

*Ampacity value based on Canadian Electrical Code, Part 1 (2024 26th Edition), Table 2. Values are corrected for number of insulated conductors as applicable according to Table 5C.



CSA Type TECK 90 Armoured Control, Multi-Conductor, 1000 V

PART NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR SIZE	BONDING CONDUCTOR SIZE	NOMINAL DIAMETER			CABLE WEIGHT	AMPACITY*	MAX PULLING TENSION (PULLING EYE)	MIN BEND RADIUS (PULL)
				OVER INNER JACKET	OVER ARMOUR	OVERALL CABLE				
		AWG	AWG	in. mm	in. mm	in. mm	lb/1000ft kg/km	30°C ambient	lb kg	in. mm
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	509 758	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	690 1027	28	581 264	20.7 525
80210M100800700	8	10	12	0.920 23.4	1.160 29.5	1.252 31.8	809 1025	28	664 301	22.5 572
80210M101000700	10	10	12	1.000 25.4	1.240 31.5	1.332 33.8	920 1369	28	830 376	24.0 609
80210M101200700	12	10	12	1.031 26.2	1.271 32.3	1.363 34.6	1017 1514	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	26.0 661
80210M102000700	20	10	12	1.268 32.2	1.508 38.3	1.600 40.6	1457 2169	28	1660 753	28.8 731
80210M102500700	25	10	12	1.412 35.9	1.652 42.0	1.760 44.7	1765 2627	24	2075 941	31.7 805
80210M103000700	30	10	12	1.496 38.0	1.736 44.1	1.844 46.9	2006 2985	24	2490 1129	33.2 843
80210M104000700	40	10	12	1.680 42.7	1.985 50.4	2.093 53.2	2604 3875	24	3320 1506	37.7 957
80210M105000700	50	10	12	1.933 49.1	2.238 56.9	2.346 59.6	3238 4818	20	4150 1882	42.2 1073

*Ampacity value based on Canadian Electrical Code, Part 1 (2024 26th Edition), Table 2. Values are corrected for number of insulated conductors as applicable according to Table 5C.