

# CSA Type TECK 90 Armoured Control, Multi-Conductor, 600 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:



## Product Construction

### Insulation:

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

### Armour:

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

### Jacket:

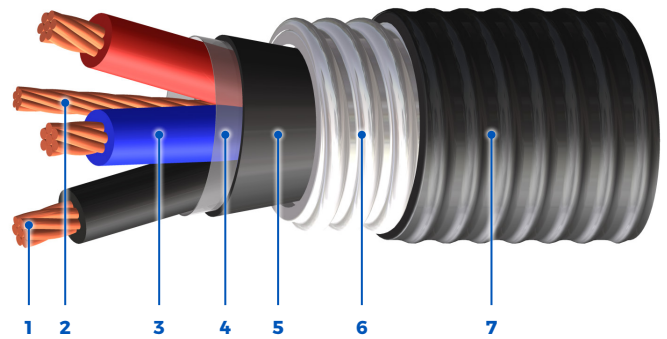
- FR LAG PVC (AG14 rated) inner/outer black jacket rated: 90°C to -40°C

### 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



- |  |  |
|--|--|
| 1 - Stranded Bare Copper Conductors (Tin-coated Available) | 5 - FR LAG PVC Inner Protective Jacket |
| 2 - Bonding Conductor                                      | 6 - Aluminum Interlocked Armour (AIA)  |
| 3 - XLPE (RW90 Rated) Insulated Conductors                 | 7 - FR LAG PVC Outer Protective Jacket |
| 4 - Polyester Separator Tape                               |  |

- 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)

## 600 V

Voltage  
(Optional: 1000 V)

## CSA Type TECK 90

Control

## Colour Coding

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

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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
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	262   390	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	372   553	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	454   676	17.5	329   149	18.0   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	902   1342	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	409   609	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	498   741	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	984   1465	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	1309   1948	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	29.0   736
86210M125000700	50	12	14	1.420   36.1	1.660   42.2	1.768   44.9	1959   2915	15	2612   1185	31.8   808

\*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.

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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
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	462   668	32	415   188	17.0   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	2803   4171	20	4150   1882	36.7   932

\*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.