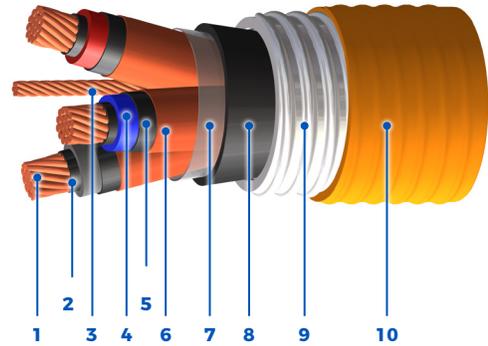


# CSA Type TECK 90 Armoured Power, Multi-Conductor, 5000 V, Shielded

Armoured power cable is used to supply power for lighting, drives, motors and pumps. 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) | 6 - Copper Tape Shield                  |
| 2 - Semiconducting Conductor Shield                        | 7 - Polyester Separator Tape            |
| 3 - Bonding Conductor                                      | 8 - FR LAG PVC Inner Protective Jacket  |
| 4 - XLPE (RW90 Rated) Insulated Conductors                 | 9 - Aluminum Interlocked Armour (AIA)   |
| 5 - Semiconducting Insulation Shield                       | 10 - FR LAG PVC Outer Protective Jacket |

## Product Construction

### Conductor Shield:

- Extruded, concentric, thermoset semiconducting material

### Insulation:

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

### Insulation Shield:

- Extruded, concentric, thermoset semiconducting layer + metallic shield

### Armour:

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

### Jacket:

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

## 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)

## 5000 V, shielded

### Voltage

## CSA Type TECK 90

### Power

### Colour Coding

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

# CSA Type TECK 90 Armoured Power, Multi-Conductor, 5000 V, Shielded

PART NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR SIZE	BONDING CONDUCTOR SIZE	NORMAL DIAMETERS			CABLE WEIGHT	AMPACITY*	MAX. PULLING TENSION (PULLING EYE)	MIN. BEND RADIUS (PULL)
				OVER INNER JACKET	OVER ARMOUR	OVERALL CABLE				
		AWG or kcmil	AWG	in.   mm	in.   mm	in.   mm	lb 1000ft / kg km	30°C ambient	lb   kg	in.   mm
8S210M060305700	3	6	8	1.159   29.4	1.399   35.5	1.491   37.9	1094   1628	75	630   286	26.8   682
8S210M040305700	3	4	8	1.260   32.0	1.500   38.1	1.592   40.4	1325   1972	95	1002   454	28.7   728
8S210M030305700	3	3	8	1.318   33.5	1.558   39.6	1.666   42.3	1539   2290	95	1263   573	30.0   762
8S210M020305700	3	2	8	1.385   35.2	1.625   41.3	1.733   44.0	1712   2548	95	1593   722	31.2   792
8S210M010345700	3	1	6	1.469   37.3	1.709   43.4	1.817   46.2	1959   2915	145	2009   911	32.7   831
8S210M1/0345700	3	1/0	6	1.555   39.5	1.860   47.2	1.968   50.0	2314   3443	170	2534   1150	35.4   900
8S210M2/0345700	3	2/0	6	1.476   37.5	1.953   49.6	2.061   52.3	2653   3948	195	3194   1449	37.1   942
8S210M3/0345700	3	3/0	4	1.818   46.2	2.123   53.9	2.231   56.7	3245   4829	225	4027   1827	40.2   1020
8S210M4/0345700	3	4/0	4	1.938   49.2	2.243   57.0	2.351   59.7	3786   5634	260	5078   2304	42.3   1075
8S210M250365700	3	250	4	2.059   52.3	2.364   60.0	2.496   63.4	5324   6435	290	6000   2722	44.9   1141
8S210M300365700	3	300	4	2.173   55.2	2.478   62.9	2.610   66.3	4922   7325	320	7200   3266	47.0   1193
8S210M350365700	3	350	3	2.281   57.9	2.586   65.7	2.718   69.0	5511   8201	350	8400   3810	48.9   1243
8S210M500365700	3	500	3	2.557   64.9	2.557   64.9	2.994   76.0	7177   10680	430	12000   5443	53.9   1369
8S210M750365700	3	750	2	3.020   76.7	3.325   84.4	3.471   88.2	10228   15221	535	18000   8165	62.5   1587

\*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.