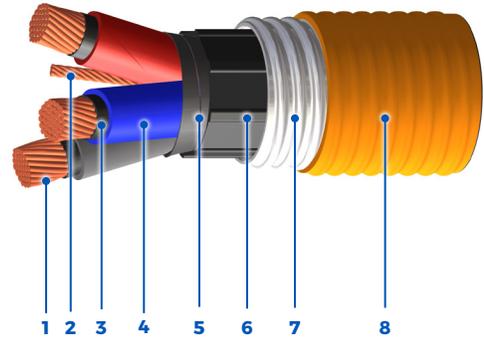


# CSA Type TECK 90 Armoured Vertical Mineshaft, 5000 V, Unshielded

Vertical Mineshaft TECK 90 cables are designed for vertical applications to prevent cable core slippage and are suitable for use in mineshaft and for environments that require self-supporting lengths. Typically used in Mining, Utilities, Industrial and Commercial applications.

## Standards:



- |  |   |
|--|---|
| 1 - Stranded Bare Copper Conductors (Tin-coated Available) | 5 - Cloth-backed Rubberized Separator Tape    |
| 2 - Bonding Conductor                                      | 6 - FR LAG PVC Inner Ribbed Protective Jacket |
| 3 - Semiconducting Conductor Shield                        | 7 - Steel Interlocked Armour (SIA)            |
| 4 - XLPE (RW90 Rated) Insulated Conductors                 | 8 - FR LAG PVC Outer Protective Jacket        |

## Product Construction

### Conductor Shield:

- Extruded, concentric, thermoset semiconducting material

### Insulation:

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

### Armour:

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

### Jacket:

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

### Available in:

- Variable Frequency Drive (VFD)
- Custom insulation/jacket colours
- Composite constructions
- Aluminum conductors
- Single conductor

## 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 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, unshielded

### Voltage

## CSA Type Teck 90

### Vertical Mineshaft

## 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)	SELF-SUPPORT LENGTH
				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	ft   m
85110M1/034570V	3	1/0	6	1.435   36.5	1.845   46.9	1.953   49.6	3200   4763	170	2534   1150	35.0   893	575   175
85110M2/034570V	3	2/0	6	1.528   38.8	1.938   49.2	2.046   52.0	3601   5358	195	3194   1449	37.0   935	645   196
85110M3/034570V	3	3/0	4	1.638   41.6	2.048   52.0	2.156   54.8	4148   6173	225	4007   1818	39.0   985	705   215
85110M4/034570V	3	4/0	4	1.818   46.2	2.228   56.6	2.336   59.3	4907   7303	260	5078   2304	42.0   1068	752   229
85110M25036570V	3	250	4	1.938   49.2	2.348   59.7	2.480   63.0	5539   8243	290	6000   2722	45.0   1134	787   240
85110M35036570V	3	350	3	2.160   54.9	2.570   65.3	2.702   68.6	6903   10272	350	8400   3810	49.0   1235	884   269
85110M50036570V	3	500	3	2.435   61.9	2.845   72.3	2.977   75.6	8854   13176	430	12000   5443	54.0   1361	985   300
85110M75036570V	3	750	2	2.897   73.6	3.369   85.6	3.515   89.3	12480   18572	535	18000   8165	63.0   1607	1048   319

\*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.

