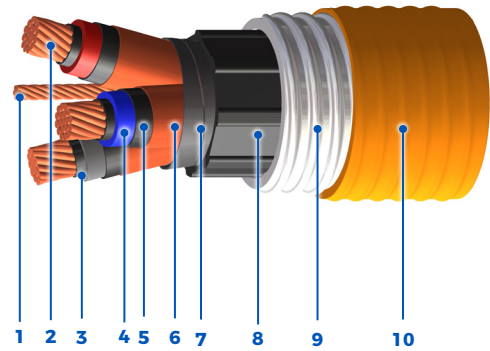


CSA Type TECK 90 Armoured Vertical Mineshaft, 5000 V, Shielded

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 - Bonding Conductor | 6 - Copper Tape Shield |
| 2 - Stranded Bare Copper Conductors (Tin-coated Available) | 7 - Cloth-backed Rubberized Separator Tape |
| 3 - Semiconducting Conductor Shield | 8 - FR LAG PVC Inner Ribbed Protective Jacket |
| 4 - XLPE (RW90 Rated) Insulated Conductors | 9 - Steel Interlocked Armour (SIA) |
| 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:

- 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, shielded

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

CSA Type TECK 90 Armoured Vertical Mineshaft, 5000 V, Shielded

PART NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR SIZE <i>AWG or kcmil</i>	BONDING CONDUCTOR SIZE <i>AWG</i>	NOMINAL DIAMETER			CABLE WEIGHT <i>lb/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>	SELF-SUPPORT LENGTH <i>ft / m</i>
				OVER INNER JACKET <i>in. / mm</i>	OVER ARMOUR <i>in. / mm</i>	OVERALL CABLE <i>in. / mm</i>					
8S110M1/034570V	3	1/0	6	1.573 40.0	1.983 50.4	2.091 53.1	3579 5326	170	2534 1150	38.0 956	514 157
8S110M2/034570V	3	2/0	6	1.666 42.3	2.076 52.7	2.184 55.5	4001 5954	195	3194 1449	39.0 998	580 177
8S110M3/034570V	3	3/0	4	1.835 46.6	2.245 57.0	2.353 59.8	4723 7029	225	4007 1818	42.0 1076	618 189
8S110M4/034570V	3	4/0	4	1.956 49.7	2.366 60.1	2.498 63.4	5429 8079	260	5078 2304	45.0 1142	680 207
8S110M25036570V	3	250	4	2.076 52.7	2.486 63.1	2.618 66.5	6032 8977	290	6000 2722	47.0 1197	723 220
8S110M35036570V	3	350	3	2.297 58.4	2.707 68.8	2.839 72.1	7453 11091	350	8400 3810	51.0 1299	819 250
8S110M50036570V	3	500	3	2.573 65.3	3.045 77.4	3.191 81.1	9673 14396	430	12000 5443	57.0 1460	901 275
8S110M75036570V	3	750	2	3.035 77.1	3.507 89.1	3.653 92.8	13234 19694	535	18000 8165	66.0 1672	988 301

*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.