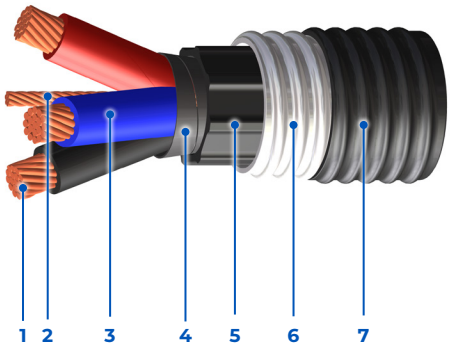
# CSA Riser TECK 90 Armoured Mineshaft Cables, 1000 V

Riser 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 – Strand Bare (ASTM B8) Annealed Copper Conductors

2 – Grounding/Bonding Conductor

3 – XLPE (RW90 Rated) Insulated Conductors

4 – Cloth Backed Rubberized Separator Tape

5 – Inner Ribbed Jacket

6 – Steel Interlocked Armour (SIA)

7 – FR LAG PVC Outer Protective Jacket

## Product Construction

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

**Armour:**
- Steel Interlocked Armour (SIA) (standard)
- Aluminum Interlocked Armour (AIA) (optional)
- Served Wire Armour (SWA) (optional)

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

**Available in:**
- Variable Frequency Drive (VFD)
- Custom colour coding
- Custom insulation/jacket colours
- Composite constructions
- Aluminum conductors
- Single conductor

## Certification/ Compliances

- CSA C22.2 NO. 131, Teck 90 Cables (Teck 90)
- CSA C22.2 NO. 174, Cables & Cable Glands for use in Hazardous Locations
- CSA C22.2 NO. 38, Thermoset Insulated Wires & Cables (XLPE)
- CSA FT4, UL 1685 FT4, Vertical Tray Flame Test rated
- IEEE 383 & 1202 (70,000 BTU/hr), Vertical Flame Test rated
- ICEA T-30-520 (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:
  - Class I Zone 1 (Div 1)
  - Class I Zone 2 (Div 2)
  - Class II Zone 20, 21 (Div 1)
  - Class II Zone 22 (Div 2)

## 1000 V

**Voltage**

Optional:
300/600/5000 V

## Color Coding

- 2C – Black & white
- 3C – Black, red & blue
- 4C – Black, red, blue & white
- 5C to 50C – Black # coded

## CSA Type Teck 90

**Mineshaft/Riser**



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| PART NUMBER | NUMBER OF CONDUCTORS | CONDUCTOR SIZE | GROUND WIRE SIZE | OD OVER INNER JACKET | NORMAL DIAMETERS | | CABLE WEIGHT | AMPACITY | MAX. PULLING TENSION (PULLING EYE) | MIN. BEND RADIUS (PULL) | SELF SUPPORT LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | OVER ARMOUR | OVERALL CABLE | | | | | |
| | | *AWG/ kcmil* | *AWG/ kcmil* | *in/mm* | *in/mm* | *in/mm* | *lbs/1000ft kg/km* | *30°C ambient* | *lb/kg* | *in/mm* | *ft/m* |
| 80110M1/034070V | 3 | 1/0 | 6 | 1.328 / 33.7 | 1.673 / 42.5 | 1.781 / 45.2 | 3196 / 4755 | 170 | 2534 / 1150 | 32/814 | 715 / 218 |
| 80110M2/034070V | 3 | 2/0 | 6 | 1.420 / 36.1 | 1.830 / 46.5 | 1.938 / 49.2 | 3630 / 5402 | 195 | 3194 / 1449 | 35/886 | 787.9 / 240 |
| 80110M3/034070V | 3 | 3/0 | 4 | 1.530 / 38.9 | 1.940 / 49.3 | 2.048 / 52.0 | 4226 / 6289 | 225 | 4007 / 1818 | 37/936 | 857.9 / 261 |
| 80110M4/034070V | 3 | 4/0 | 4 | 1.650 / 41.9 | 2.060 / 52.3 | 2.168 / 55.1 | 4705 / 7001 | 260 | 5078 / 2304 | 39/991 | 971.5 / 296 |
| 80110M25036070V | 3 | 250 | 4 | 1.852 / 47.1 | 2.262 / 57.5 | 2.394 / 60.8 | 5499 / 8183 | 290 | 6000 / 2722 | 43/1095 | 987.3 / 301 |
| 80110M35036070V | 3 | 350 | 3 | 2.074 / 52.7 | 2.484 / 63.1 | 2.616 / 66.4 | 6876 / 10232 | 350 | 8400 / 3810 | 47/1196 | 1108 / 338 |
| 80110M50036070V | 3 | 500 | 3 | 2.349 / 59.7 | 2.759 / 70.1 | 2.891 / 73.4 | 8807 / 13107 | 430 | 12000 / 5443 | 52/1322 | 1232.4 / 376 |
| 80110M75036070V | 3 | 750 | 2 | 2.734 / 69.4 | 3.206 / 81.4 | 3.352 / 85.2 | 11074 / 16480 | 535 | 18000 / 8165 | 60/1533 | 1475.3 / 450 |

*Ampacity value based on Canadian Electrical Code, Version 2018, Table-2.



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