

CSA RISER TECK 90 ARMoured MINESHAFT CABLES, 5000V, UNSHIELDED

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.

VOLTAGE

5000 V

OPTIONAL: 300/600/1000V

PRODUCT CONSTRUCTION

Insulation:

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

Armour:

- Steel Interlocked Armour (SIA) (standard)
- Aluminum Interlocked Armour (AIA) (optional)
- Serve 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
- Aluminum conductors
- Composite constructions
- Single conductor

CERTIFICATION/COMPLIANCES

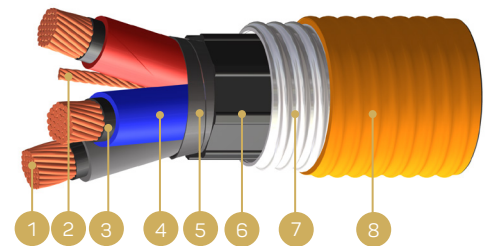
- CSA C22.2 NO. 131, Teck 90 Cables (Teck 90)
- CSA C22.2 NO. 174, Cables & Cable Glands for use in Hazardous Locations
- CSA C22.2 NO. 38, Thermoset Insulated Wires & Cables (XLPE)
- CSA FT4, UL 1685 FT4, Vertical Tray Flame Test rated
- IEEE 383 & 1202 (70,000 BTU/hr), Vertical Flame Test rated
- ICEA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

COLOR CODING

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

5000 V
VOLTAGE

CSA Type TECK 90
MINESHAFT/RISER



1. Strand Bare (ASTM B8) Annealed Copper Conductors
2. Grounding/Bonding Conductor
3. Semicon Conductor Shield
4. XLPE (RW90 Rated) Insulated Conductors
5. Cloth Backed Rubberized Separator Tape
6. Inner Ribbed Jacket
7. Steel Interlocked Armour (SIA)
8. FR LAG PVC Outer Protective Jacket

STANDARDS:



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					
					(in/mm)	(in/mm)					
		(AWG/MCM)	(AWG/MCM)	(in/mm)	(in/mm)	(in/mm)	(lbs/1000ft) (kg/km)	(30°C ambient)	(lb/kg)	(in/mm)	(ft/m)
85110M1/034570V	3	1/0	6	1.435 / 36.46	1.845 / 46.87	1.953 / 49.62	3458 / 5145	170	2534 / 1150	35 / 893	660.8 / 201
85110M2/034570V	3	2/0	6	1.528 / 38.81	1.938 / 49.22	2.046 / 51.97	3877 / 5769	195	3194 / 1449	37 / 935	737.8 / 225
85110M3/034570V	3	3/0	4	1.638 / 41.59	2.048 / 52.01	2.156 / 54.75	4494 / 6687	225	4007 / 1818	39 / 985	806.8 / 246
85110M4/034570V	3	4/0	4	1.818 / 46.17	2.228 / 56.59	2.336 / 59.33	5137 / 7645	260	5078 / 2304	42 / 1068	889.8 / 271
85110M25036570V	3	250	4	1.938 / 49.23	2.348 / 59.65	2.48 / 63	5716 / 8507	290	6000 / 2722	45 / 1134	949.7 / 289
85110M35036570V	3	350	3	2.16 / 54.86	2.57 / 65.27	2.702 / 68.63	7114 / 10586	350	8400 / 3810	49 / 1235	1070.9 / 326
85110M50036570V	3	500	3	2.435 / 61.85	2.845 / 72.26	2.977 / 75.62	9068 / 13495	430	12000 / 5443	54 / 1361	1196.9 / 365
85110M75036570V	3	750	2	2.897 / 73.58	3.369 / 85.59	3.515 / 89.29	11583 / 17238	535	18000 / 8165	63 / 1607	1410.5 / 430

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

FOR FURTHER INFORMATION, PLEASE CONTACT:

Americas: 800 422 6872

Canada: 800 845 6808

Asia Pacific: +86 512 82280099

Europe: +49 2226 9047 55

All information contained in this datasheet is believed to be reliable. We advise however that customers should separately evaluate the suitability of our products for their particular application. Shawcor gives no guarantees in respect to accuracy or sufficiency of the information presented and disclaim any liability regarding its use. Our responsibilities are only those listed in our Standard Terms and Conditions of Sale for these products. In no instance will we be liable for any eventual, indirect, or consequential damage or damages arising from the sale, resale, transfer, use or misuse of the product. Subject to modification.