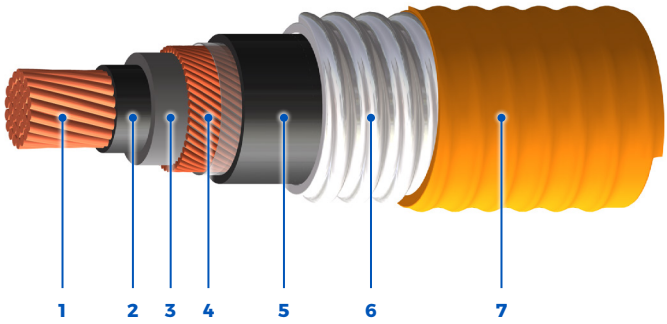
CSA Type TECK 90 Armoured Power, Single-Conductor, 5000 V, Unshielded

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 Conductor (Tin-coated Available)

2 – Semiconducting Conductor Shield

3 – XLPE (RW90 Rated) Insulated Conductor

4 – Bonding Conductor, Copper Wire Served Helically

5 – FR LAG PVC Inner Protective Jacket

6 – Aluminum Interlocked Armour (AIA)

7 – FR LAG PVC Outer Protective Jacket

Product Construction

Conductor Shield:
- Extruded, concentric, thermoset semiconducting material

Insulation:
- XLPE (RW90 rated) rated: 90˚C wet/105˚C dry

Bonding Conductor:
- Concentric serving of solid bare copper wires applied over the insulation

Armour:
- Aluminum Interlocked Armour (AIA) (standard)

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:
- Ribbed inner-jacketed core for vertical/mineshaft applications
- Custom insulation/ jacket colours
- 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)

Colour Coding

- Black conductor (standard)

5000 V, unshielded

Voltage

CSA Type TECK 90

Power

CSA Type TECK 90 Armoured Power, Single-Conductor, 5000 V, Unshielded

PART NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR SIZE	BONDING CONDUCTOR SIZE†	NOMINAL DIAMETER			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*
85210M060105700	1	6	8	0.544 | 13.8	0.784 | 19.9	0.876 | 22.3	379 | 565	105	210 | 95	15.8 | 401
85210M040105700	1	4	6	0.643 | 16.3	0.883 | 22.4	0.975 | 24.8	514 | 765	140	334 | 151	17.6 | 446
85210M030105700	1	3	6	0.670 | 17.0	0.910 | 23.1	1.002 | 25.5	563 | 838	165	421 | 191	18.0 | 458
85210M020105700	1	2	6	0.701 | 17.8	0.941 | 23.9	1.033 | 26.2	616 | 916	190	531 | 241	18.6 | 472
85210M010145700	1	1	4	0.766 | 19.5	0.986 | 25.0	1.078 | 27.4	795 | 1183	220	670 | 304	19.4 | 493
85210M1/0145700	1	1/0	4	0.806 | 20.5	1.046 | 26.6	1.138 | 28.9	883 | 1314	260	845 | 383	20.5 | 520
85210M2/0145700	1	2/0	4	0.849 | 21.6	1.089 | 27.7	1.181 | 30.0	988 | 1471	300	1065 | 483	21.3 | 540
85210M3/0145700	1	3/0	4	0.900 | 22.9	1.140 | 29.0	1.232 | 31.3	1147 | 1707	350	1336 | 606	22.2 | 563
85210M4/0145700	1	4/0	4	0.986 | 25.0	1.226 | 31.1	1.318 | 33.5	1349 | 2007	405	1693 | 768	23.7 | 603
85210M250165700	1	250	4	1.042 | 26.5	1.282 | 32.6	1.374 | 34.9	1555 | 2315	455	2000 | 907	24.7 | 628
85210M300165700	1	300	4	1.095 | 27.8	1.335 | 33.9	1.427 | 36.3	1743 | 2594	500	2400 | 1089	25.7 | 652
85210M350165700	1	350	4	1.145 | 29.1	1.385 | 35.2	1.477 | 37.5	1972 | 2935	570	2800 | 1270	26.6 | 675
85210M500165700	1	500	4	1.273 | 32.3	1.513 | 38.4	1.605 | 40.8	2569 | 3822	700	4000 | 1814	28.9 | 734
85210M750165700	1	750	4	1.460 | 37.1	1.700 | 43.2	1.808 | 45.9	3578 | 5324	885	6000 | 2722	32.5 | 827

*Ampacity value based on Canadian Electrical Code, Part 1 (2024 26th Edition), Table 1.
† The size of the concentrically applied bonding conductor shall be determined from the sum of the cross-sectional areas of the individual wires.