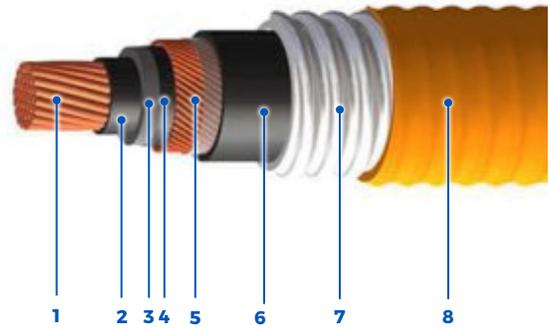


# CSA Type TECK 90 Armoured Power, Single-Conductor, 5000 V Shielded

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) | 5 - Bonding Conductor, Copper Wire Served Helically |
| 2 - Semiconducting Conductor Shield                       | 6 - FR LAG PVC Inner Protective Jacket              |
| 3 - XLPE (RW90 Rated) Insulated Conductor                 | 7 - Aluminum Interlocked Armour (AIA)               |
| 4 - Insulation Shield                                     | 8 - 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

### Insulation Shield:

- Extruded, concentric, thermoset semiconducting layer + metallic shield

### 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

Version 1.0 | [shawflex.com](http://shawflex.com)

## 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)

## 5000 V, shielded

Voltage

## CSA Type TECK 90

Power

## Colour Coding

- Black conductor (standard)



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

PART NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR SIZE	BONDING CONDUCTOR SIZE†	NORMAL DIAMETERS			CABLE WEIGHT	AMPACITY*	MAX. PULLING TENSION (PULLING EYE)	MIN. BEND RADIUS (PULL)
				OVERALL 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
8S210M060105700	1	6	8	0.596   15.1	0.836   21.2	0.928   23.6	417   620	105	210   95	16.7   424
8S210M040105700	1	4	6	0.695   17.7	0.935   23.7	1.027   26.1	556   828	140	334   151	18.5   470
8S210M030105700	1	3	6	0.722   18.3	0.962   24.4	1.054   26.8	607   904	165	421   191	19.0   482
8S210M020105700	1	2	6	0.753   19.1	0.993   25.2	1.085   27.6	662   986	190	531   241	19.5   496
8S210M010145700	1	1	4	0.818   20.8	1.058   26.9	1.150   29.2	851   1266	220	670   304	20.7   526
8S210M1/0145700	1	1/0	4	0.858   21.8	1.098   27.9	1.190   30.2	938   1396	260	845   383	21.4   544
8S210M2/0145700	1	2/0	4	0.901   22.9	1.141   29.0	1.233   31.3	1047   1559	300	1065   483	22.2   564
8S210M3/0145700	1	3/0	4	0.952   24.2	1.192   30.3	1.284   32.6	1211   1802	350	1336   606	23.1   587
8S210M4/0145700	1	4/0	4	1.038   26.4	1.278   32.5	1.370   34.8	1420   2113	405	1693   768	24.7   626
8S210M250165700	1	250	4	1.094   27.8	1.334   33.9	1.426   36.2	1631   2427	455	2000   907	25.7   652
8S210M300165700	1	300	4	1.147   29.1	1.387   35.2	1.479   37.6	1824   2715	500	2400   1089	26.6   676
8S210M350165700	1	350	4	1.197   30.4	1.437   36.5	1.529   38.8	2058   3063	570	2800   1270	27.5   699
8S210M500165700	1	500	4	1.326   33.7	1.565   39.8	1.673   42.5	2694   4009	700	4000   1814	30.1   765
8S210M750165700	1	750	4	1.512   38.4	1.752   44.5	1.860   47.2	3702   5509	885	6000   2722	33.5   850

\*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.