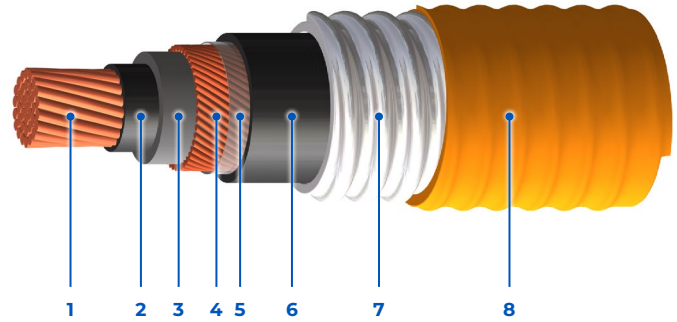


CSA TECK90 Armoured Power, Single-Conductor, 5000 V, Unshielded

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 – Strand Bare (ASTM B8) Annealed Copper Conductor
- 2 – Semicon Conductor Shield
- 3 – XLPE (RW90 Rated) Insulated Conductor
- 4 – Serve/Wound Grounds
- 5 – Polyester Separator Tape

- 6 – FR LAG PVC Inner Protective Jacket
- 7 – Aluminum Interlocked Armour (AIA)
- 8 – FR LAG PVC Outer Protective Jacket

Product Construction

90 MIL Insulation Grounding/Bonding Conductor:

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

Insulation:

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

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:

- Verlock (for mineshaft applications)
- Custom colour coding
- Custom insulation/ jacket colours
- Aluminum conductors

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)

Colour Coding

- Black conductor (standard)

5000 V

Voltage

CSA Type TECK 90

Power

CSA TECK90 Armoured Power, Single-Conductor, 5000 V, Unshielded

| PART NUMBER | NUMBER OF CONDUCTORS | CONDUCTOR SIZE <i>(AWG/kcmil)</i> | GROUND WIRE SIZE (UNINSULATED) <i>(AWG/kcmil)</i> | NORMAL DIAMETERS | | | CABLE WEIGHT <i>(lbs/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> |
|-----------------|----------------------|--------------------------------------|--|----------------------------------|-------------------------------|---------------------------------|---|-----------------------------------|---|--|
| | | | | INSULATED WIRE <i>(in/mm)</i> | OVER ARMOUR <i>(in/mm)</i> | OVERALL CABLE <i>(in/mm)</i> | | | | |
| 85210M060105700 | 1 | 6 | 8 | 0.392 / 10.0 | 0.784 / 19.9 | 0.876 / 22.3 | 385 / 572 | 105 | 210 / 95 | 15.8/401 |
| 85210M040105700 | 1 | 4 | 6 | 0.439 / 11.2 | 0.883 / 22.4 | 0.975 / 24.8 | 521 / 775 | 140 | 334 / 151 | 17.6/446 |
| 85210M030105700 | 1 | 3 | 6 | 0.466 / 11.8 | 0.910 / 23.1 | 1.002 / 25.5 | 569 / 846 | 165 | 421 / 191 | 18/458 |
| 85210M020105700 | 1 | 2 | 6 | 0.497 / 12.6 | 0.941 / 23.9 | 1.033 / 26.2 | 627 / 934 | 190 | 531 / 241 | 18.6/472 |
| 85210M010145700 | 1 | 1 | 4 | 0.536 / 13.6 | 0.986 / 25.0 | 1.078 / 27.4 | 802 / 1194 | 220 | 670 / 304 | 19.4/493 |
| 85210M1/0145700 | 1 | 1/0 | 4 | 0.576 / 14.6 | 1.046 / 26.6 | 1.138 / 28.9 | 896 / 1334 | 260 | 845 / 383 | 20.5/520 |
| 85210M2/0145700 | 1 | 2/0 | 4 | 0.619 / 15.7 | 1.089 / 27.7 | 1.181 / 30.0 | 1006 / 1497 | 300 | 1065 / 483 | 21.3/540 |
| 85210M3/0145700 | 1 | 3/0 | 4 | 0.670 / 17.0 | 1.140 / 29.0 | 1.232 / 31.3 | 1171 / 1742 | 350 | 1336 / 606 | 22.2/563 |
| 85210M4/0145700 | 1 | 4/0 | 4 | 0.726 / 18.4 | 1.226 / 31.1 | 1.318 / 33.5 | 1375 / 2046 | 405 | 1693 / 768 | 23.7/603 |
| 85210M250165700 | 1 | 250 | 4 | 0.782 / 19.9 | 1.282 / 32.6 | 1.374 / 34.9 | 1562 / 2324 | 455 | 2000 / 907 | 24.7/628 |
| 85210M300165700 | 1 | 300 | 4 | 0.835 / 21.2 | 1.335 / 33.9 | 1.427 / 36.3 | 1747 / 2599 | 500 | 2400 / 1089 | 25.7/652 |
| 85210M350165700 | 1 | 350 | 4 | 0.885 / 22.5 | 1.385 / 35.2 | 1.477 / 37.5 | 1986 / 2955 | 570 | 2800 / 1270 | 26.6/675 |
| 85210M500165700 | 1 | 500 | 4 | 1.013 / 25.7 | 1.513 / 38.4 | 1.605 / 40.8 | 2594 / 3861 | 700 | 4000 / 1814 | 28.9/734 |
| 85210M750165700 | 1 | 750 | 4 | 1.200 / 30.5 | 1.700 / 43.2 | 1.808 / 45.9 | 3615 / 5379 | 885 | 6000 / 2722 | 32.5/827 |

*Ampacity value based on Canadian Electrical Code, Version 2018, Table-1.