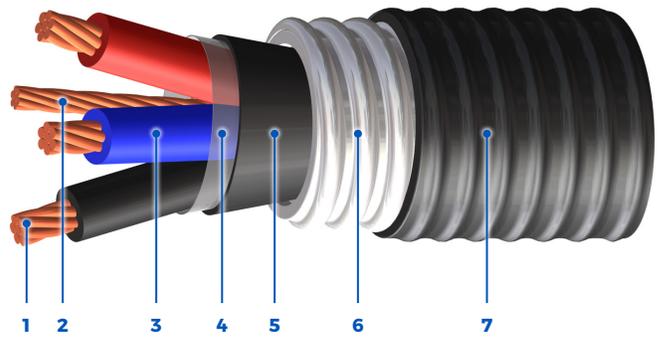


CSA Type TECK 90 Armoured Power, Multi-Conductor, 1000 V

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 Conductors (Tin-coated Available) | 5 - FR LAG PVC Inner Protective Jacket |
| 2 - Bonding Conductor | 6 - Aluminum Interlocked Armour (AIA) |
| 3 - XLPE (RW90 Rated) Insulated Conductors | 7 - FR LAG PVC Outer Protective Jacket |
| 4 - Polyester Separator Tape | |

Product Construction

Insulation:

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

Armour:

- Aluminum Interlocked Armour (AIA) (standard)
- Steel Interlocked Armour (SIA) (optional)

Jacket:

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

Available in:

- Variable Frequency Drive (VFD)
- Ribbed inner-jacketed core for vertical/mineshaft applications
- Custom insulation/jacket colours
- Composite constructions
- 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

- 2C - Black & white
- 3C - Black, red & blue
- 4C - Black, red, blue & white
- 5C and greater - Black, number-coded with white ink

1000 V

Voltage
(Optional: 600 V)

CSA Type TECK 90

Power

CSA Type TECK 90 Armoured Power, Multi-Conductor, 1000 V

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
80210M080200700	2	8	10	0.606 15.4	0.846 21.5	0.938 23.8	407 606	55	265 120	16.9 429
80210M060200700	2	6	8	0.744 18.9	0.984 25.0	1.076 27.3	550 818	75	419 190	19.4 492
80210M040200700	2	4	8	0.838 21.3	1.074 27.3	1.166 29.6	762 1134	95	668 303	21.1 535
80210M030200700	2	3	6	0.932 23.7	1.168 29.7	1.260 32.0	933 1388	115	842 382	22.8 578
80210M020200700	2	2	6	0.994 25.3	1.230 31.2	1.322 33.6	1046 1556	130	1062 482	23.9 606
80210M010240700	2	1	6	1.152 29.3	1.388 35.3	1.480 37.6	1297 1930	145	1339 607	26.7 678
80210M1/0240700	2	1/0	6	1.232 31.3	1.468 37.3	1.560 39.6	1487 2214	170	1690 766	28.2 715
80210M2/0240700	2	2/0	6	1.318 33.5	1.554 39.5	1.662 42.2	1746 2598	195	2130 966	30.0 762
80210M3/0340700	3	3/0	4	1.513 38.4	1.753 44.5	1.861 47.3	2602 3872	225	4027 1827	33.5 851
80210M4/0240700	2	4/0	4	1.532 38.9	1.833 46.6	1.941 49.3	2533 3770	260	3386 1536	35.0 889
80210M250260700	2	250	4	1.664 42.3	1.965 49.9	2.073 52.7	2894 4307	290	4000 1814	37.4 950
80210M300260700	2	300	4	1.830 46.5	2.131 54.1	2.239 56.9	3432 5108	320	4800 2177	40.4 1025
80210M350260700	2	350	3	1.930 49.0	2.231 56.7	2.339 59.4	3858 5741	350	5600 2540	42.2 1071
80210M500260700	2	500	3	2.186 55.5	2.487 63.2	2.619 66.5	5086 7569	430	8000 3629	47.2 1199
80210M750260700	2	750	2	2.544 64.6	2.845 72.3	2.977 75.6	7052 10494	535	12000 5443	53.7 1363
80210MA00260700	2	1000	1	2.902 73.7	3.203 81.4	3.349 85.1	9264 13786	615	16000 7258	40.2 1022
80210M080300700	3	8	10	0.660 16.8	0.900 22.9	0.992 25.2	489 727	55	329 180	11.9 302
80210M060300700	3	6	8	0.813 20.7	1.049 26.7	1.141 29.0	729 1085	75	629 285	20.6 524
80210M040300700	3	4	8	0.930 23.6	1.170 29.7	1.262 32.1	966 1437	95	1002 454	22.7 577
80210M030300700	3	3	6	0.988 25.1	1.226 31.1	1.318 33.5	1131 1682	115	1263 573	23.8 604
80210M020300700	3	2	6	1.055 26.8	1.295 32.9	1.387 35.2	1285 1912	130	1593 723	25.0 634
80210M010340700	3	1	6	1.225 31.1	1.463 37.2	1.555 39.5	1582 2354	145	2009 911	28.0 712
80210M1/0340700	3	1/0	6	1.311 33.3	1.551 39.4	1.659 42.1	1853 2758	170	2534 1150	29.9 758
80210M2/0340700	3	2/0	6	1.403 35.7	1.643 41.7	1.751 44.5	2164 3221	195	3194 1449	31.5 801
80210M3/0340700	3	3/0	4	1.513 38.4	1.753 44.5	1.861 47.3	2602 3873	225	4007 1818	33.5 851
80210M4/0340700	3	4/0	4	1.633 41.5	1.938 49.2	2.046 52.0	3185 4739	260	5078 2304	36.8 936
80210M250360700	3	250	4	1.835 46.6	2.140 54.4	2.248 57.1	3779 5623	290	6000 2722	40.5 1028
80210M300360700	3	300	4	1.949 49.5	2.254 57.3	2.362 60.0	4343 6463	320	7200 3266	42.5 1080
80210M350360700	3	350	3	2.057 52.2	2.362 60.0	2.494 63.3	4957 7377	350	8400 3810	44.9 1140
80210M500360700	3	500	3	2.332 59.2	2.637 67.0	2.769 70.3	6543 9737	430	12000 5443	49.8 1266
80210M750360700	3	750	2	2.717 69.0	3.022 76.8	3.154 80.1	9204 13697	535	18000 8165	56.8 1442
80210MA00360700	3	1000	1	3.097 78.7	3.404 86.5	3.550 90.2	12155 18089	615	24000 10886	42.6 1081

*Ampacity value based on Canadian Electrical Code, Part 1 (2024 26th Edition), Table 2. Values are corrected for number of insulated conductors as applicable according to Table 5C.

CSA Type TECK 90 Armoured Power, Multi-Conductor, 1000 V

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				
		<i>AWG or kcmil</i>	<i>AWG</i>	<i>in. mm</i>	<i>in. mm</i>	<i>in. mm</i>	<i>lb 1000ft kg km</i>	<i>30°C ambient</i>	<i>lb kg</i>	<i>in. mm</i>
80210M080400700	4	8	10	0.719 18.3	0.959 24.4	1.051 26.7	577 858	55	529 240	18.9 480
80210M060400700	4	6	8	0.929 23.6	1.165 29.6	1.257 31.9	901 1341	60	839 380	22.7 576
80210M040400700	4	4	8	1.045 26.6	1.282 32.6	1.373 34.9	1167 1736	76	1336 606	24.8 630
80210M030400700	4	3	6	1.112 28.3	1.348 34.3	1.441 36.6	1387 2065	92	1684 764	26.0 660
80210M020400700	4	2	6	1.189 30.2	1.425 36.2	1.517 38.5	1588 2363	104	2124 964	27.4 696
80210M010440700	4	1	6	1.351 34.3	1.589 40.4	1.697 43.1	1985 2954	116	2678 1215	30.6 777
80210M1/0440700	4	1/0	6	1.448 36.8	1.686 42.8	1.794 45.6	2296 3416	136	3379 1533	32.3 821
80210M2/0440700	4	2/0	6	1.551 39.4	1.856 47.2	1.964 49.9	2788 4149	156	4259 1932	35.4 898
80210M3/0440700	4	3/0	4	1.674 42.5	1.979 50.3	2.087 53.0	3355 4993	180	5370 2436	37.6 954
80210M4/0440700	4	4/0	4	1.869 47.5	2.174 55.2	2.282 58.0	4127 6142	208	6771 3071	41.1 1043
80210M250460700	4	250	4	2.028 51.5	2.333 59.3	2.465 62.6	4807 7153	232	8000 3629	44.4 1127
80210M300460700	4	300	4	2.156 54.8	2.461 62.5	2.593 65.9	5551 8261	256	9600 4355	46.7 1185
80210M350460700	4	350	3	2.276 57.8	2.581 65.6	2.713 68.9	6267 9327	280	11200 5080	48.8 1241
80210M500460700	4	500	3	2.585 65.7	2.890 73.4	3.022 76.8	8386 12480	344	16000 7258	54.4 1382
80210M750460700	4	750	2	3.076 78.1	3.381 85.9	3.527 89.6	12131 18053	428	24000 10886	63.5 1613

*Ampacity value based on Canadian Electrical Code, Part 1 (2024 26th Edition), Table 2. Values are corrected for number of insulated conductors as applicable according to Table 5C.