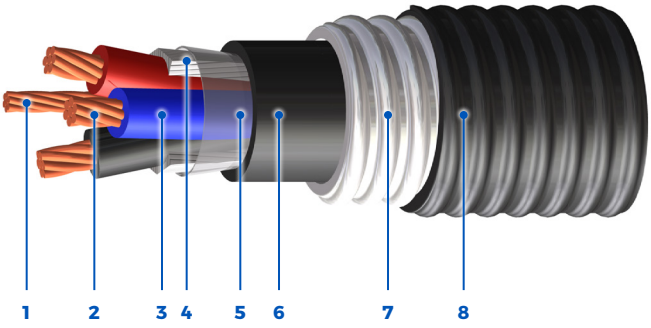
CSA LSZH Type ACIC Armoured Control, Multi-Conductor, 600 V

LSZH AIA Control cables are suitable for use in ventilated, non-ventilated and ladder type cable trays, direct burial, raceways and for exposed or concealed wiring in wet, damp or dry locations in. Applicable for use in Utilities, Industrial and Commercial applications.



1 – Bonding Conductor

2 – Stranded Bare Copper Conductors (Tin-coated Available)

3 – XLPE (RW90 Rated) Insulated Conductors

4 – Polypropylene Fillers

5 – Fiberglass Tape

6 – LSZH Inner Protective Jacket

7 – Aluminum Interlocked Armour (AIA)

8 – LSZH Outer Protective Jacket

Standards:

RoHS

Product Construction

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

Shielding (foil-free edge):
- OS (optional)

Jacket:
- LSZH inner/outer black jacket rated: 90˚C

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

Available in:
- Custom insulation/ jacket colours
- Composite constructions

Certification/ Compliances

- CSA C22.2 No. 239, Control and instrumentation cables
- 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
- CSA C22.2 No. 2556/UL 2556 ST1 Limited Smoke rated
- XLPE (RW90 rated), 90˚C wet/dry
- UV sunlight resistant "SUN RES" (all colours)
- Direct burial rated
- -40˚C cold bend/ impact rated
- Halogen-free rated
- Rated for use in hazardous locations:
  - Zone 0 (Class 1, Division 1) (Intrinsically Safe circuits only)
  - Zone 2 (Class I, Division 2)
  - 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

600 V

Voltage (Optional: 300, 1000 V)

CSA Type ACIC

Control

CSA LSZH Type ACIC Armoured Control, Multi-Conductor, 600 V

PART NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR SIZE	GROUND CONDUCTOR SIZE	NOMINAL DIAMETER			CABLE WEIGHT	AMPACITY*	MAX PULLING TENSION (PULLING EYE)	MIN BEND RADIUS (PULL)
				OVER INNER JACKET	OVER ARMOUR	OVERALL CABLE				
		AWG	*AWG*	*in. | mm*	*in. | mm*	*in. | mm*	*lb|1000ft | kg|km*	*30°C ambient*	*lb | kg*	*in. | mm*
69210M140200814	2	14	14	0.372 | 9.5	0.612 | 15.5	0.724 | 18.4	235 | 349	25	66 | 30	13.0 | 331
69210M140300814	3	14	14	0.403 | 10.2	0.643 | 16.3	0.755 | 19.2	263 | 391	25	99 | 45	13.6 | 345
69210M140400814	4	14	14	0.436 | 11.1	0.676 | 17.2	0.788 | 20.0	292 | 435	20	132 | 60	14.2 | 360
69210M140500814	5	14	14	0.465 | 11.8	0.705 | 17.9	0.817 | 20.8	321 | 477	20	165 | 75	14.7 | 374
69210M140600814	6	14	14	0.505 | 12.8	0.745 | 18.9	0.857 | 21.8	354 | 527	20	197 | 90	15.4 | 392
69210M140700814	7	14	14	0.575 | 14.6	0.815 | 20.7	0.927 | 23.6	413 | 615	17.5	230 | 104	16.7 | 424
69210M140800814	8	14	14	0.616 | 15.7	0.856 | 21.8	0.968 | 24.6	449 | 669	17.5	263 | 119	17.4 | 443
69210M141000814	10	14	14	0.668 | 17.0	0.908 | 23.1	1.020 | 25.9	501 | 746	17.5	329 | 149	18.4 | 466
69210M141200814	12	14	14	0.688 | 17.5	0.928 | 23.6	1.040 | 26.4	540 | 804	17.5	395 | 179	18.7 | 476
69210M141500814	15	14	14	0.741 | 18.8	0.981 | 24.9	1.093 | 27.8	615 | 915	17.5	494 | 224	19.7 | 500
69210M142000814	20	14	14	0.841 | 21.4	1.081 | 27.5	1.193 | 30.3	786 | 1170	17.5	658 | 298	21.5 | 545
69210M142500814	25	14	14	0.974 | 24.7	1.214 | 30.8	1.326 | 33.7	970 | 1443	15	823 | 373	23.9 | 606
69210M143000814	30	14	14	1.028 | 26.1	1.269 | 32.2	1.381 | 35.1	1077 | 1603	15	987 | 448	24.9 | 631
69210M144000814	40	14	14	1.147 | 29.1	1.387 | 35.2	1.499 | 38.1	1307 | 1945	15	1316 | 597	27.0 | 685
69210M145000814	50	14	14	1.272 | 32.3	1.512 | 38.4	1.624 | 41.2	1535 | 2284	12.5	1645 | 746	29.2 | 742
69210M120200814	2	12	14	0.408 | 10.4	0.648 | 16.5	0.760 | 19.3	265 | 394	30	104 | 47	13.7 | 347
69210M120300814	3	12	14	0.443 | 11.3	0.683 | 17.3	0.795 | 20.2	303 | 450	30	157 | 71	14.3 | 363
69210M120400814	4	12	14	0.480 | 12.2	0.721 | 18.3	0.833 | 21.2	342 | 508	24	209 | 95	15.0 | 381
69210M120500814	5	12	14	0.514 | 13.1	0.754 | 19.1	0.866 | 22.0	380 | 566	24	261 | 118	15.6 | 396
69210M120600814	6	12	14	0.589 | 15.0	0.829 | 21.1	0.941 | 23.9	451 | 671	24	313 | 142	16.9 | 430
69210M120700814	7	12	14	0.634 | 16.1	0.874 | 22.2	0.986 | 25.1	498 | 741	21	365 | 166	17.8 | 451
69210M120800814	8	12	14	0.681 | 17.3	0.921 | 23.4	1.033 | 26.2	545 | 811	21	418 | 189	18.6 | 472
69210M121000814	10	12	14	0.740 | 18.8	0.980 | 24.9	1.092 | 27.7	615 | 915	21	522 | 237	19.7 | 499
69210M121200814	12	12	14	0.763 | 19.4	0.982 | 25.0	1.095 | 27.8	713 | 1060	21	626 | 284	19.7 | 500
69210M121500814	15	12	14	0.823 | 20.9	1.063 | 27	1.175 | 29.9	818 | 1218	21	783 | 355	21.2 | 537
69210M122000814	20	12	14	0.976 | 24.8	1.216 | 30.9	1.328 | 33.7	1052 | 1565	21	1044 | 474	23.9 | 607
69210M122500814	25	12	14	1.082 | 27.5	1.322 | 33.6	1.434 | 36.4	1234 | 1836	18	1305 | 592	25.8 | 656
69210M123000814	30	12	14	1.144 | 29.1	1.384 | 35.2	1.496 | 38.0	1384 | 2060	18	1566 | 710	26.9 | 684
69210M124000814	40	12	14	1.278 | 32.5	1.518 | 38.6	1.630 | 41.4	1708 | 2542	18	2088 | 947	29.3 | 745
69210M125000814	50	12	14	1.420 | 36.1	1.660 | 42.2	1.792 | 45.5	2065 | 3073	15	2610 | 1184	32.3 | 819

*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 LSZH Type ACIC Armoured Control, Multi-Conductor, 600 V

PART NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR SIZE	GROUND CONDUCTOR SIZE	NOMINAL DIAMETER			CABLE WEIGHT	AMPACITY*	MAX PULLING TENSION (PULLING EYE)	MIN BEND RADIUS (PULL)
				OVER INNER JACKET	OVER ARMOUR	OVERALL CABLE				
		AWG	*AWG*	*in. | mm*	*in. | mm*	*in. | mm*	*lb|1000ft | kg|km*	*30°C ambient*	*lb | kg*	*in. | mm*
69210M180200814	2	10	12	0.458 | 11.6	0.698 | 17.7	0.810 | 20.6	317 | 471	40	166 | 75	14.6 | 370
69210M180300814	3	10	12	0.498 | 12.7	0.739 | 18.8	0.851 | 21.6	370 | 550	40	249 | 113	15.3 | 389
69210M180400814	4	10	12	0.572 | 14.5	0.813 | 20.6	0.925 | 23.5	450 | 670	32	332 | 151	16.6 | 423
69210M180500814	5	10	12	0.611 | 15.5	0.851 | 21.6	0.963 | 24.5	506 | 753	32	415 | 188	17.3 | 440
69210M180600814	6	10	12	0.664 | 16.9	0.904 | 23.0	1.016 | 25.8	568 | 845	32	498 | 226	18.3 | 465
69210M180700814	7	10	12	0.717 | 18.2	0.957 | 24.3	1.069 | 27.2	631 | 940	28	581 | 264	19.2 | 489
69210M180800814	8	10	12	0.771 | 19.6	0.991 | 25.2	1.103 | 28.0	737 | 1096	28	664 | 301	19.9 | 504
69210M181000814	10	10	12	0.840 | 21.3	1.080 | 27.4	1.192 | 30.3	842 | 1254	28	830 | 376	21.5 | 545
69210M181200814	12	10	12	0.906 | 23.0	1.147 | 29.1	1.258 | 32.0	979 | 1456	28	996 | 452	22.7 | 575
69210M181500814	15	10	12	0.977 | 24.8	1.217 | 30.9	1.329 | 33.8	1131 | 1684	28	1245 | 565	23.9 | 608
69210M182000814	20	10	12	1.109 | 28.2	1.349 | 34.3	1.461 | 37.1	1388 | 2066	28	1660 | 753	26.3 | 668
69210M182500814	25	10	12	1.232 | 31.3	1.472 | 37.4	1.584 | 40.2	1646 | 2449	24	2075 | 941	28.5 | 724
69210M183000814	30	10	12	1.304 | 33.1	1.544 | 39.2	1.676 | 42.6	1903 | 2832	24	2490 | 1129	30.2 | 766
69210M184000814	40	10	12	1.461 | 37.1	1.701 | 43.2	1.833 | 46.6	2372 | 3530	24	3320 | 1506	33.0 | 838
69210M185000814	50	10	12	1.626 | 41.3	1.931 | 49.1	2.063 | 52.4	2926 | 4354	20	4150 | 1882	37.1 | 943
69210M160200814	2	16	16	0.346 | 8.8	0.346 | 8.8	0.698 | 17.7	211 | 314	10	41 | 19	12.6 | 319
69210M160300814	3	16	16	0.374 | 9.5	0.374 | 9.5	0.726 | 18.4	233 | 347	10	62 | 28	13.1 | 332
69210M160400814	4	16	16	0.404 | 10.3	0.404 | 10.3	0.756 | 19.2	256 | 381	8	82 | 37	13.6 | 346
69210M160500814	5	16	16	0.430 | 10.9	0.430 | 10.9	0.782 | 19.9	279 | 415	8	103 | 47	14.1 | 358
69210M160600814	6	16	16	0.466 | 11.8	0.466 | 11.8	0.818 | 20.8	305 | 453	8	124 | 56	14.7 | 374
69210M160700814	7	16	16	0.502 | 12.8	0.502 | 12.8	0.854 | 21.7	331 | 493	7	144 | 65	15.4 | 390
69210M160800814	8	16	16	0.569 | 14.5	0.569 | 14.5	0.921 | 23.4	386 | 575	7	165 | 75	16.6 | 421
69210M161000814	10	16	16	0.616 | 15.7	0.616 | 15.7	0.968 | 24.6	425 | 632	7	206 | 93	17.4 | 443
69210M161200814	12	16	16	0.634 | 16.1	0.634 | 16.1	0.986 | 25.1	455 | 677	7	247 | 112	17.8 | 451
69210M161500814	15	16	16	0.682 | 17.3	0.682 | 17.3	1.034 | 26.3	508 | 756	7	309 | 140	18.6 | 473
69210M162000814	20	16	16	0.772 | 19.6	0.772 | 19.6	1.104 | 28.0	646 | 962	7	412 | 187	19.9 | 505
69210M162500814	25	16	16	0.896 | 22.8	0.896 | 22.8	1.248 | 31.7	802 | 1193	6	515 | 234	22.5 | 571
69210M163000814	30	16	16	0.945 | 24.0	0.945 | 24.0	1.297 | 32.9	879 | 1308	6	618 | 280	23.3 | 593
69210M164000814	40	16	16	1.052 | 26.7	1.052 | 26.7	1.404 | 35.7	1058 | 1574	6	824 | 374	25.3 | 642
69210M165000814	50	16	16	1.165 | 29.6	1.165 | 29.6	1.517 | 38.5	1229 | 1828	5	1030 | 467	27.3 | 693

*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 LSZH Type ACIC Armoured Control, Multi-Conductor, 600 V

PART NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR SIZE	GROUND CONDUCTOR SIZE	NOMINAL DIAMETER			CABLE WEIGHT	AMPACITY*	MAX PULLING TENSION (PULLING EYE)	MIN BEND RADIUS (PULL)
				OVER INNER JACKET	OVER ARMOUR	OVERALL CABLE				
		AWG	*AWG*	*in. | mm*	*in. | mm*	*in. | mm*	*lb|1000ft | kg|km*	*30°C ambient*	*lb | kg*	*in. | mm*
69210M180200814	2	18	18	0.322 | 8.2	0.322 | 8.2	0.674 | 17.1	191 | 285	5	26 | 12	12.1 | 308
69210M180300814	3	18	18	0.338 | 8.6	0.338 | 8.6	0.690 | 17.5	205 | 306	5	39 | 18	12.4 | 316
69210M180400814	4	18	18	0.366 | 9.3	0.366 | 9.3	0.719 | 18.3	224 | 333	4	52 | 24	12.9 | 329
69210M180500814	5	18	18	0.398 | 10.1	0.398 | 10.1	0.749 | 19.0	246 | 366	4	65 | 29	13.5 | 343
69210M180600814	6	18	18	0.430 | 10.9	0.430 | 10.9	0.782 | 19.9	267 | 397	4	78 | 35	14.1 | 358
69210M180700814	7	18	18	0.462 | 11.7	0.462 | 11.7	0.814 | 20.7	289 | 430	3.5	91 | 41	14.7 | 372
69210M180800814	8	18	18	0.496 | 12.6	0.496 | 12.6	0.848 | 21.5	311 | 462	3.5	104 | 47	15.3 | 388
69210M181000814	10	18	18	0.568 | 14.4	0.568 | 14.4	0.920 | 23.4	367 | 546	3.5	130 | 59	16.6 | 421
69210M181200814	12	18	18	0.584 | 14.8	0.584 | 14.8	0.936 | 23.8	389 | 579	3.5	156 | 71	16.9 | 428
69210M181500814	15	18	18	0.627 | 15.9	0.627 | 15.9	0.979 | 24.9	429 | 639	3.5	195 | 88	17.6 | 448
69210M182000814	20	18	18	0.708 | 18.0	0.708 | 18.0	1.061 | 26.9	507 | 755	3.5	260 | 118	19.1 | 485
69210M182500814	25	18	18	0.784 | 19.9	0.784 | 19.9	1.136 | 28.9	626 | 931	3	325 | 147	20.4 | 519
69210M183000814	30	18	18	0.828 | 21.0	0.828 | 21.0	1.181 | 30.0	681 | 1014	3	390 | 177	21.2 | 540
69210M184000814	40	18	18	0.964 | 24.5	0.964 | 24.5	1.316 | 33.4	866 | 1289	3	520 | 236	23.7 | 602
69210M185000814	50	18	18	1.066 | 27.1	1.066 | 27.1	1.418 | 36.0	998 | 1485	2.5	650 | 295	25.5 | 648

*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.