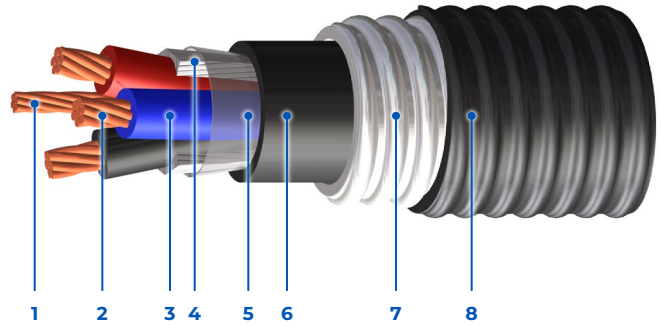


# CSA LSZH ACIC Armoured Control, Multi-Conductor, 600 V

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 -40°C (-40°F) environments. Applicable for use in Utilities, Industrial and Commercial applications.

## Standards:



- 1 – Grounding/Bonding Conductor
- 2 – Stranded Bare (ASTM B8) Annealed Copper Conductors
- 3 – XLPE (RW90 Rated) Insulated Conductors
- 4 – Polypropylene Fillers
- 5 – Polyester Separator Tape
- 6 – LSZH Inner Protective Jacket
- 7 – Aluminum Interlocked Armour (AIA)
- 8 – LSZH Outer Protective Jacket

## 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)
- Serve Wire Armour (SWA) (optional)

### Available in:

- Custom insulation/jacket colours
- Composite constructions

## Certification/Compliances

- CSA C22.2 NO. 239, Control & Instrumentation Cables (Type ACIC)
- CSA C22.2 NO. 38, Thermoset Insulated Wires & Cables (XLPE)
- CSA FT4,- ST1 Halogen Free & 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 rated
- -25°C cold impact rated

- Rated for use in hazardous locations:

- Class 1 Zone 0 (Intrinsically Safe cables only)
- Class 1 Zone 1 (Div 1)
- Class 1 Zone 2 (Div 2)

## Colour Coding

- 2C – Black & white
- 3C – Black, red & blue
- 4C – Black, red, blue & white
- 5C-50C – Black # coded

## 600 V

Voltage (Optional: 300/1000 V)

## CSA Type ACIC

Control

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

PART NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR SIZE <i>(AWG/kcmil)</i>	GROUND WIRE SIZE <i>(AWG/kcmil)</i>	OD OVER INNER JACKET <i>(in/mm)</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>
					OVER ARMOR <i>(in/mm)</i>	OVERALL CABLE <i>(in/mm)</i>				
69210M140200814	2	14	14	0.372 / 9.45	0.612 / 15.54	0.724 / 18.39	235 / 349	25	66 / 30	13 / 331
69210M140300814	3	14	14	0.403 / 10.23	0.643 / 16.32	0.755 / 19.17	263 / 391	25	99 / 45	13.6 / 345
69210M140400814	4	14	14	0.436 / 11.07	0.676 / 17.17	0.788 / 20.01	292 / 435	20	132 / 60	14.2 / 360
69210M140500814	5	14	14	0.465 / 11.81	0.705 / 17.91	0.817 / 20.76	321 / 477	20	165 / 75	14.7 / 374
69210M140600814	6	14	14	0.505 / 12.83	0.745 / 18.92	0.857 / 21.77	354 / 527	20	197 / 90	15.4 / 392
69210M140700814	7	14	14	0.575 / 14.6	0.815 / 20.69	0.927 / 23.54	413 / 615	17.5	230 / 104	16.7 / 424
69210M140800814	8	14	14	0.616 / 15.65	0.856 / 21.75	0.968 / 24.59	449 / 669	17.5	263 / 119	17.4 / 443
69210M141000814	10	14	14	0.668 / 16.97	0.908 / 23.06	1.02 / 25.91	501 / 746	17.5	329 / 149	18.4 / 466
69210M141200814	12	14	14	0.688 / 17.48	0.928 / 23.58	1.04 / 26.42	540 / 804	17.5	395 / 179	18.7 / 476
69210M141500814	15	14	14	0.741 / 18.83	0.981 / 24.92	1.093 / 27.77	615 / 915	17.5	494 / 224	19.7 / 500
69210M142000814	20	14	14	0.841 / 21.36	1.081 / 27.45	1.193 / 30.3	786 / 1170	17.5	658 / 298	21.5 / 545
69210M142500814	25	14	14	0.974 / 24.74	1.214 / 30.84	1.326 / 33.68	970 / 1443	15	823 / 373	23.9 / 606
69210M143000814	30	14	14	1.028 / 26.12	1.269 / 32.22	1.381 / 35.07	1077 / 1603	15	987 / 448	24.9 / 631
69210M144000814	40	14	14	1.147 / 29.13	1.387 / 35.22	1.499 / 38.07	1307 / 1945	15	1316 / 597	27 / 685
69210M145000814	50	14	14	1.272 / 32.31	1.512 / 38.4	1.624 / 41.24	1535 / 2284	12.5	1645 / 746	29.2 / 742
69210M120200814	2	12	14	0.408 / 10.36	0.648 / 16.46	0.76 / 19.3	265 / 394	30	104 / 47	13.7 / 347
69210M120300814	3	12	14	0.443 / 11.25	0.683 / 17.34	0.795 / 20.18	303 / 450	30	157 / 71	14.3 / 363
69210M120400814	4	12	14	0.48 / 12.2	0.721 / 18.31	0.833 / 21.15	342 / 508	24	209 / 95	15 / 381
69210M120500814	5	12	14	0.514 / 13.05	0.754 / 19.14	0.866 / 21.98	380 / 566	24	261 / 118	15.6 / 396
69210M120600814	6	12	14	0.589 / 14.96	0.829 / 21.06	0.941 / 23.9	451 / 671	24	313 / 142	16.9 / 430
69210M120700814	7	12	14	0.634 / 16.11	0.874 / 22.21	0.986 / 25.06	498 / 741	21	365 / 166	17.8 / 451
69210M120800814	8	12	14	0.681 / 17.3	0.921 / 23.4	1.033 / 26.24	545 / 811	21	418 / 189	18.6 / 472
69210M121000814	10	12	14	0.74 / 18.8	0.98 / 24.89	1.092 / 27.74	615 / 915	21	522 / 237	19.7 / 499
69210M121200814	12	12	14	0.763 / 19.37	0.982 / 24.96	1.095 / 27.8	713 / 1060	21	626 / 284	19.7 / 500
69210M121500814	15	12	14	0.823 / 20.91	1.063 / 27	1.175 / 29.85	818 / 1218	21	783 / 355	21.2 / 537
69210M122000814	20	12	14	0.976 / 24.8	1.216 / 30.9	1.328 / 33.74	1052 / 1565	21	1044 / 474	23.9 / 607
69210M122500814	25	12	14	1.082 / 27.48	1.322 / 33.58	1.434 / 36.42	1234 / 1836	18	1305 / 592	25.8 / 656
69210M123000814	30	12	14	1.144 / 29.06	1.384 / 35.15	1.496 / 37.99	1384 / 2060	18	1566 / 710	26.9 / 684
69210M124000814	40	12	14	1.278 / 32.47	1.518 / 38.57	1.63 / 41.41	1708 / 2542	18	2088 / 947	29.3 / 745
69210M125000814	50	12	14	1.42 / 36.08	1.66 / 42.17	1.792 / 45.53	2065 / 3073	15	2610 / 1184	32.3 / 819

\*Ampacity value based on Canadian Electrical Code, Version 2018, Table-2 and Table-57. Values are corrected according to Table-5C and Table-57 for number of Conductors.

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

PART NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR SIZE <i>(AWG/kcmil)</i>	GROUND WIRE SIZE <i>(AWG/kcmil)</i>	OD OVER INNER JACKET <i>(in/mm)</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>
					OVER ARMOR <i>(in/mm)</i>	OVERALL CABLE <i>(in/mm)</i>				
69210M180200814	2	10	12	0.458 / 11.63	0.698 / 17.73	0.81 / 20.57	317 / 471	40	166 / 75	14.6 / 370
69210M180300814	3	10	12	0.498 / 12.66	0.739 / 18.76	0.851 / 21.61	370 / 550	40	249 / 113	15.3 / 389
69210M180400814	4	10	12	0.572 / 14.54	0.813 / 20.64	0.925 / 23.49	450 / 670	32	332 / 151	16.6 / 423
69210M180500814	5	10	12	0.611 / 15.52	0.851 / 21.62	0.963 / 24.46	506 / 753	32	415 / 188	17.3 / 440
69210M180600814	6	10	12	0.664 / 16.87	0.904 / 22.96	1.016 / 25.81	568 / 845	32	498 / 226	18.3 / 465
69210M180700814	7	10	12	0.717 / 18.21	0.957 / 24.31	1.069 / 27.15	631 / 940	28	581 / 264	19.2 / 489
69210M180800814	8	10	12	0.771 / 19.59	0.991 / 25.18	1.103 / 28.03	737 / 1096	28	664 / 301	19.9 / 504
69210M181000814	10	10	12	0.84 / 21.34	1.08 / 27.43	1.192 / 30.28	842 / 1254	28	830 / 376	21.5 / 545
69210M181200814	12	10	12	0.906 / 23.02	1.147 / 29.12	1.258 / 31.97	979 / 1456	28	996 / 452	22.7 / 575
69210M181500814	15	10	12	0.977 / 24.81	1.217 / 30.91	1.329 / 33.76	1131 / 1684	28	1245 / 565	23.9 / 608
69210M182000814	20	10	12	1.109 / 28.16	1.349 / 34.26	1.461 / 37.11	1388 / 2066	28	1660 / 753	26.3 / 668
69210M182500814	25	10	12	1.232 / 31.29	1.472 / 37.39	1.584 / 40.23	1646 / 2449	24	2075 / 941	28.5 / 724
69210M183000814	30	10	12	1.304 / 33.12	1.544 / 39.23	1.676 / 42.58	1903 / 2832	24	2490 / 1129	30.2 / 766
69210M184000814	40	10	12	1.461 / 37.1	1.701 / 43.21	1.833 / 46.56	2372 / 3530	24	3320 / 1506	33 / 838
69210M185000814	50	10	12	1.626 / 41.31	1.931 / 49.05	2.063 / 52.4	2926 / 4354	20	4150 / 1882	37.1 / 943
69210M160200814	2	16	16	0.346 / 8.79	0.346 / 8.79	0.698 / 17.73	211 / 314	10	41 / 19	12.6 / 319
69210M160300814	3	16	16	0.374 / 9.49	0.374 / 9.49	0.726 / 18.43	233 / 347	10	62 / 28	13.1 / 332
69210M160400814	4	16	16	0.404 / 10.25	0.404 / 10.25	0.756 / 19.2	256 / 381	8	82 / 37	13.6 / 346
69210M160500814	5	16	16	0.43 / 10.92	0.43 / 10.92	0.782 / 19.87	279 / 415	8	103 / 47	14.1 / 358
69210M160600814	6	16	16	0.466 / 11.84	0.466 / 11.84	0.818 / 20.78	305 / 453	8	124 / 56	14.7 / 374
69210M160700814	7	16	16	0.502 / 12.75	0.502 / 12.75	0.854 / 21.69	331 / 493	7	144 / 65	15.4 / 390
69210M160800814	8	16	16	0.569 / 14.46	0.569 / 14.46	0.921 / 23.4	386 / 575	7	165 / 75	16.6 / 421
69210M161000814	10	16	16	0.616 / 15.65	0.616 / 15.65	0.968 / 24.59	425 / 632	7	206 / 93	17.4 / 443
69210M161200814	12	16	16	0.634 / 16.1	0.634 / 16.1	0.986 / 25.05	455 / 677	7	247 / 112	17.8 / 451
69210M161500814	15	16	16	0.682 / 17.32	0.682 / 17.32	1.034 / 26.26	508 / 756	7	309 / 140	18.6 / 473
69210M162000814	20	16	16	0.772 / 19.61	0.772 / 19.61	1.104 / 28.04	646 / 962	7	412 / 187	19.9 / 505
69210M162500814	25	16	16	0.896 / 22.76	0.896 / 22.76	1.248 / 31.7	802 / 1193	6	515 / 234	22.5 / 571
69210M163000814	30	16	16	0.945 / 24.01	0.945 / 24.01	1.297 / 32.94	879 / 1308	6	618 / 280	23.3 / 593
69210M164000814	40	16	16	1.052 / 26.72	1.052 / 26.72	1.404 / 35.66	1058 / 1574	6	824 / 374	25.3 / 642
69210M165000814	50	16	16	1.165 / 29.59	1.165 / 29.59	1.517 / 38.52	1229 / 1828	5	1030 / 467	27.3 / 693

\*Ampacity value based on Canadian Electrical Code, Version 2018, Table-2 and Table-57. Values are corrected according to Table-5C and Table-57 for number of Conductors.

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

PART NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR SIZE <i>(AWG/kcmil)</i>	GROUND WIRE SIZE <i>(AWG/kcmil)</i>	OD OVER INNER JACKET <i>(in/mm)</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>
					OVER ARMOR <i>(in/mm)</i>	OVERALL CABLE <i>(in/mm)</i>				
69210M180200814	2	18	18	0.322 / 8.18	0.322 / 8.18	0.674 / 17.12	191 / 285	5	26 / 12	12.1 / 308
69210M180300814	3	18	18	0.338 / 8.59	0.338 / 8.59	0.69 / 17.53	205 / 306	5	39 / 18	12.4 / 316
69210M180400814	4	18	18	0.366 / 9.3	0.366 / 9.3	0.719 / 18.25	224 / 333	4	52 / 24	12.9 / 329
69210M180500814	5	18	18	0.398 / 10.1	0.398 / 10.1	0.749 / 19.04	246 / 366	4	65 / 29	13.5 / 343
69210M180600814	6	18	18	0.43 / 10.92	0.43 / 10.92	0.782 / 19.86	267 / 397	4	78 / 35	14.1 / 358
69210M180700814	7	18	18	0.462 / 11.74	0.462 / 11.74	0.814 / 20.69	289 / 430	3.5	91 / 41	14.7 / 372
69210M180800814	8	18	18	0.496 / 12.6	0.496 / 12.6	0.848 / 21.54	311 / 462	3.5	104 / 47	15.3 / 388
69210M181000814	10	18	18	0.568 / 14.43	0.568 / 14.43	0.92 / 23.37	367 / 546	3.5	130 / 59	16.6 / 421
69210M181200814	12	18	18	0.584 / 14.84	0.584 / 14.84	0.936 / 23.78	389 / 579	3.5	156 / 71	16.9 / 428
69210M181500814	15	18	18	0.627 / 15.94	0.627 / 15.94	0.979 / 24.87	429 / 639	3.5	195 / 88	17.6 / 448
69210M182000814	20	18	18	0.708 / 17.99	0.708 / 17.99	1.061 / 26.94	507 / 755	3.5	260 / 118	19.1 / 485
69210M182500814	25	18	18	0.784 / 19.91	0.784 / 19.91	1.136 / 28.85	626 / 931	3	325 / 147	20.4 / 519
69210M183000814	30	18	18	0.828 / 21.04	0.828 / 21.04	1.181 / 29.99	681 / 1014	3	390 / 177	21.2 / 540
69210M184000814	40	18	18	0.964 / 24.5	0.964 / 24.5	1.316 / 33.44	866 / 1289	3	520 / 236	23.7 / 602
69210M185000814	50	18	18	1.066 / 27.07	1.066 / 27.07	1.418 / 36.01	998 / 1485	2.5	650 / 295	25.5 / 648

\*Ampacity value based on Canadian Electrical Code, Version 2018, Table-2 and Table-57. Values are corrected according to Table-5C and Table-57 for number of Conductors.