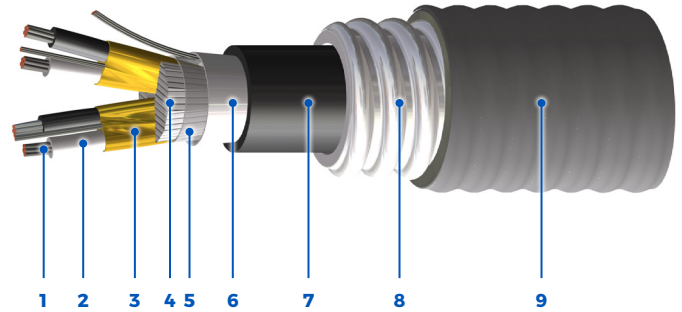


CSA Type ACIC Armoured Instrumentation, 600 V

Armoured Instrumentation cables are used to convert analogue or digital signals. Used when there is a possibility for crosstalk between pairs/triads. Interlocked armour replaces the use of conduit for mechanical protection. Type ACIC Instrumentation cables can be installed in raceways, cable trays, direct burial applications and in outdoor exposed Industrial applications.

Standards:



- | | |
|--------------------------------------------------------------------------|---------------------------------------------------------------------|
| 1 - Stranded Bare Copper Conductors (Tin-coated Available) | 6 - Overall Aluminum/Mylar Shield with Tin-coated Copper Drain Wire |
| 2 - XLPE (RW90 Rated) Insulated Conductors | 7 - FR LAG PVC Inner Protective Jacket |
| 3 - Individually Shielded Pairs/Triads with Tin-Coated Copper Drain Wire | 8 - Aluminum Interlocked Armour (AIA) |
| 4 - Polypropylene Fillers | 9 - FR LAG PVC Outer Protective Jacket |
| 5 - Polyester Separator Tape | |

Product Construction

Insulation:

- FR XLPE (RW90 rated) 90°C wet/105°C dry
- PVC (optional)

Shielding (foil-free edge):

- ISOS (standard)
- OS (optional)

Armour:

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

Jacket:

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

Available in:

- Copper taper or braided shield
- Custom insulation/jacket colours

- Composite constructions
- Ribbed inner-jacketed core for vertical/mineshaft applications

Certification/Compliances

- CSA C22.2 No. 239, Control and instrumentation cables
- 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. 75, Thermoplastic-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/105°C 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)
- HL-BCD gas groups rated

Colour Coding

- Pairs - Black, & white, number-coded with black ink printed on white conductor (standard)
- Triads - Black, white & red, number-coded with black ink printed on white conductor (standard)

600 V

Voltage (Optional):
300, 1000 V)

CSA Type ACIC

Instrumentation

CSA Type ACIC Armoured Instrumentation, 600 V

Pairs

PART NUMBER	NUMBER OF PAIRS	CONDUCTOR SIZE	NOMINAL DIAMETER			CABLE WEIGHT	MAX PULLING TENSION (PULLING EYE)	MIN BEND RADIUS (PULL)
			OVER INNER JACKET	OVER ARMOUR	OVERALL CABLE			
		AWG	in. mm	in. mm	in. mm	lb 1000ft / kg km	lb kg	in. mm
69221M160108700	1	16	0.327 8.3	0.567 14.4	0.679 17.3	180 269	41 19	12.2 310
69222M160208700	2	16	0.494 12.6	0.734 18.7	0.846 21.5	285 424	82 37	15.2 387
69222M160408700	4	16	0.608 15.5	0.848 21.5	0.960 24.4	379 564	165 75	17.3 439
69222M160608700	6	16	0.732 18.6	0.972 24.7	1.084 27.5	488 726	247 112	19.5 496
69222M160808700	8	16	0.797 20.3	1.037 26.3	1.149 29.2	612 910	330 150	20.7 525
69222M161208700	12	16	1.010 25.6	1.250 31.8	1.362 34.6	843 1254	494 224	24.5 623
69222M161608700	16	16	1.128 28.7	1.368 34.8	1.480 37.6	1003 1493	659 299	26.6 677
69222M162408700	24	16	1.406 35.7	1.646 41.8	1.778 45.2	1399 2081	989 449	32.0 813
69222M163608700	36	16	1.625 41.3	1.930 49.0	2.062 52.4	1931 2874	1483 673	37.1 943
69221M180108700	1	18	0.303 7.7	0.543 13.8	0.655 16.6	165 245	26 12	11.8 299
69222M180208700	2	18	0.455 11.6	0.695 17.7	0.807 20.5	250 373	52 24	14.5 369
69222M180408700	4	18	0.560 14.2	0.800 20.3	0.912 23.2	325 484	104 47	16.4 417
69222M180608700	6	18	0.672 17.1	0.912 23.2	1.024 26.0	411 611	156 71	18.4 468
69222M180808700	8	18	0.730 18.6	0.970 24.6	1.082 27.5	470 700	208 94	19.5 495
69222M181208700	12	18	0.925 23.5	1.165 29.6	1.277 32.4	695 1034	312 142	23.0 584
69222M181608700	16	18	1.032 26.2	1.272 32.3	1.384 35.2	817 1216	416 189	24.9 633
69222M182408700	24	18	1.283 32.6	1.523 38.7	1.635 41.5	1092 1625	624 283	29.4 748
69222M183608700	36	18	1.480 37.6	1.720 43.7	1.852 47.1	1448 2154	936 425	33.3 847

CSA Type ACIC Armoured Instrumentation, 600 V

Triads

PART NUMBER	NUMBER OF PAIRS	CONDUCTOR SIZE	NOMINAL DIAMETER			CABLE WEIGHT	MAX PULLING TENSION (PULLING EYE)	MIN BEND RADIUS (PULL)
			OVER INNER JACKET	OVER ARMOUR	OVERALL CABLE			
		AWG	in. mm	in. mm	in. mm	lb 1000ft / kg km	lb kg	in. mm
69231M160108700	1	16	0.345 8.8	0.585 14.9	0.697 17.7	198 295	62 28	12.5 319
69232M160208700	2	16	0.591 15.0	0.831 21.1	0.943 24.0	356 530	124 56	17.0 431
69232M160408700	4	16	0.694 17.6	0.934 23.7	1.046 26.6	458 681	247 112	18.8 478
69232M160608700	6	16	0.871 22.1	1.111 28.2	1.223 31.1	684 1017	371 168	22.0 559
69232M160808700	8	16	0.946 24.0	1.186 30.1	1.298 33.0	795 1183	494 224	23.4 593
69232M161208700	12	16	1.156 29.4	1.396 35.5	1.508 38.3	1054 1569	742 336	27.2 690
69232M161608700	16	16	1.294 32.9	1.534 39.0	1.666 42.3	1301 1936	989 449	30.0 762
69232M162408700	24	16	1.619 41.1	1.924 48.9	2.056 52.2	1880 2797	1483 673	37.0 940
69231M180108700	1	18	0.319 8.1	0.559 14.2	0.671 17.1	178 265	39 18	12.1 307
69232M180208700	2	18	0.544 13.8	0.784 19.9	0.896 22.8	311 464	78 35	16.1 410
69232M180408700	4	18	0.637 16.5	0.877 22.3	0.989 25.1	388 578	156 71	17.8 452
69232M180608700	6	18	0.767 19.5	0.987 25.1	1.099 27.9	540 803	234 106	19.8 503
69232M180808700	8	18	0.867 22.0	1.107 28.1	1.219 31.0	662 985	312 142	21.9 557
69232M181208700	12	18	1.057 26.9	1.297 33.0	1.409 35.8	865 1287	468 212	25.4 644
69232M181608700	16	18	1.181 30.0	1.421 36.1	1.533 38.9	1024 1524	624 283	27.6 701
69232M182408700	24	18	1.474 37.4	1.713 43.5	1.845 46.9	1425 2121	936 425	33.2 844