

CSA Type ACIC Armoured Instrumentation, 300 V

Armoured Instrumentation cables can be used to minimize noise and signal interference by preventing crosstalk between pairs and triads. This cable can also be used to convert analogue or digital signals. Type ACIC Instrumentation cables can be installed in raceways, cable trays, direct burial applications and in outdoor exposed industrial applications.

Standards:



Product Construction

Insulation:

- FR XLPE (RW90 rated) 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

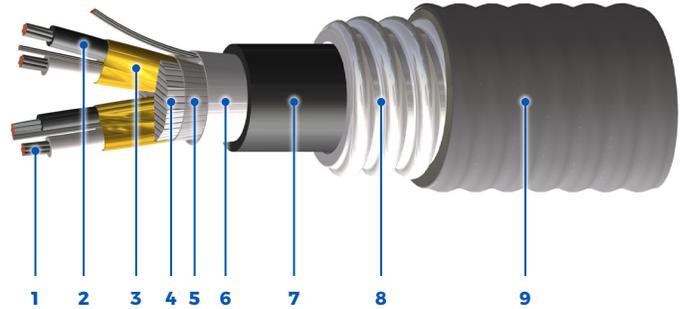
Available in:

- Copper tape 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)



1 - Stranded Bare Copper Conductors (Tin-coated Available)

2 - XLPE (RW90 Rated) Insulated Conductors

3 - Individually Shielded Pairs/Triads with Tin-coated Copper Drain Wire

4 - Polypropylene Fillers

5 - Polyester Separator Tape

6 - Overall Aluminum/Mylar Shield with Tin-coated Copper Drain Wire

7 - FR LAG PVC Inner Protective Jacket

8 - Aluminum Interlocked Armour (AIA)

9 - FR LAG PVC Outer Protective Jacket

- 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)

300 V

Voltage (Optional: 600, 1000 V)

CSA Type ACIC

Instrumentation



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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
64221M160108700	1	16	0.299 7.6	0.539 13.7	0.651 16.5	168 251	41 19	11.7 298
64222M160208700	2	16	0.448 11.4	0.688 17.5	0.800 20.3	259 385	82 37	14.4 366
64222M160408700	4	16	0.552 14.0	0.792 20.1	0.904 23.0	343 511	165 75	16.3 413
64222M160608700	6	16	0.662 16.8	0.902 22.9	1.014 25.8	438 651	247 112	18.3 464
64222M160808700	8	16	0.719 18.3	0.959 24.4	1.071 27.2	508 756	330 150	19.3 490
64222M161208700	12	16	0.911 23.2	1.151 29.2	1.263 32.1	751 1117	494 224	22.7 578
64222M161608700	16	16	1.016 25.8	1.256 31.9	1.368 34.8	893 1329	659 299	24.6 625
64222M162408700	24	16	1.263 32.1	1.503 38.2	1.615 41.0	1207 1797	989 449	29.1 738
64222M163608700	36	16	1.456 37.0	1.696 43.1	1.828 46.4	1623 2416	1483 673	32.9 836
64221M180108700	1	18	0.275 7.0	0.515 13.1	0.627 15.9	154 229	26 12	11.3 287
64222M180208700	2	18	0.409 10.4	0.649 16.5	0.761 19.3	230 342	52 24	13.7 348
64222M180408700	4	18	0.478 12.1	0.718 18.2	0.830 21.1	279 416	104 47	14.9 379
64222M180608700	6	18	0.602 15.3	0.842 21.4	0.954 24.2	373 555	156 71	17.2 436
64222M180808700	8	18	0.653 16.6	0.893 22.7	1.005 25.5	426 633	208 94	18.1 459
64222M181208700	12	18	0.795 20.2	1.035 26.3	1.147 29.1	594 884	312 142	20.6 524
64222M181608700	16	18	0.920 23.4	1.160 29.5	1.272 32.3	737 1096	416 189	22.9 582
64222M182408700	24	18	1.139 28.9	1.379 35.0	1.492 37.9	983 1463	624 283	26.8 682

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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
64231M160108700	1	16	0.315 8.0	0.555 14.1	0.667 16.9	184 274	62 28	12.0 305
64232M160208700	2	16	0.511 13.0	0.751 19.1	0.863 21.9	305 454	124 56	15.5 395
64232M160408700	4	16	0.628 16.0	0.868 22.0	0.980 24.9	416 620	247 112	17.6 448
64232M160608700	6	16	0.756 19.2	0.997 25.3	1.109 28.2	542 807	371 168	20.0 507
64232M160808700	8	16	0.855 21.7	1.095 27.8	1.207 30.7	718 1068	494 224	21.7 552
64232M161208700	12	16	1.042 26.5	1.281 32.6	1.393 35.4	948 1411	742 336	25.1 637
64232M161608700	16	16	1.164 29.6	1.404 35.7	1.516 38.5	1141 1698	989 449	27.3 693
64232M162408700	24	16	1.451 36.9	1.691 43.0	1.823 46.3	1602 2384	1483 673	32.8 834
64231M180108700	1	18	0.289 7.3	0.529 13.4	0.641 16.3	166 246	39 18	11.5 293
64232M180208700	2	18	0.464 11.8	0.704 17.9	0.816 20.7	265 394	78 35	14.7 373
64232M180408700	4	18	0.571 14.5	0.811 20.6	0.923 23.4	352 523	156 71	16.6 422
64232M180608700	6	18	0.685 17.4	0.925 23.5	1.037 26.3	449 668	234 106	18.7 474
64232M180808700	8	18	0.744 18.9	0.984 25.0	1.096 27.8	520 774	312 142	19.7 501
64231M160108700	1	16	0.315 8.0	0.555 14.1	0.667 16.9	184 274	62 28	12 305
64232M160208700	2	16	0.511 13.0	0.751 19.1	0.863 21.9	305 454	124 56	15.5 395
64232M160408700	4	16	0.628 16.0	0.868 22.0	0.980 24.9	416 620	247 112	17.6 448
64232M160608700	6	16	0.756 19.2	0.997 25.3	1.109 28.2	542 807	371 168	20.0 507
64232M160808700	8	16	0.855 21.7	1.095 27.8	1.207 30.7	718 1068	494 224	21.7 552
64232M161208700	12	16	1.042 26.5	1.281 32.6	1.393 35.4	948 1411	742 336	25.1 637
64232M161608700	16	16	1.164 29.6	1.404 35.7	1.516 38.5	1141 1698	989 449	27.3 693
64232M162408700	24	16	1.451 36.9	1.691 43.0	1.823 46.3	1602 2384	1483 673	32.8 834
64231M180108700	1	18	0.289 7.3	0.529 13.4	0.641 16.3	166 246	39 18	11.5 293
64232M180208700	2	18	0.464 11.8	0.704 17.9	0.816 20.7	265 394	78 35	14.7 373
64232M180408700	4	18	0.571 14.5	0.811 20.6	0.923 23.4	352 523	156 71	16.6 422
64232M180608700	6	18	0.685 17.4	0.925 23.5	1.037 26.3	449 668	234 106	18.7 474
64232M180808700	8	18	0.744 18.9	0.984 25.0	1.096 27.8	520 774	312 142	19.7 501
64232M181208700	12	18	0.942 23.9	1.182 30.0	1.294 32.9	769 1144	468 212	23.3 592
64232M181608700	16	18	1.050 26.7	1.290 32.8	1.402 35.6	915 1361	624 283	25.2 641
64232M182408700	24	18	1.306 33.2	1.546 39.3	1.678 42.6	1269 1888	936 425	30.2 767
64231M200108700	1	20	0.246 6.3	0.486 12.4	0.598 15.2	144 214	24 11	10.8 273
64232M200208700	2	20	0.387 9.8	0.627 15.9	0.739 18.8	218 325	48 22	13.3 338
64232M200608700	6	20	0.567 14.4	0.807 20.5	0.919 23.3	353 525	144 65	16.5 420
64232M200808700	8	20	0.614 15.6	0.854 21.7	0.966 24.5	403 599	192 87	17.4 442
64232M201208700	12	20	0.745 18.9	0.985 25.0	1.097 27.9	518 771	288 131	19.8 502
64232M201608700	16	20	0.863 21.9	1.103 28.0	1.215 30.9	694 1032	384 174	21.9 556
64232M202408700	24	20	1.066 27.1	1.305 33.2	1.418 36.0	921 1370	576 261	25.5 648