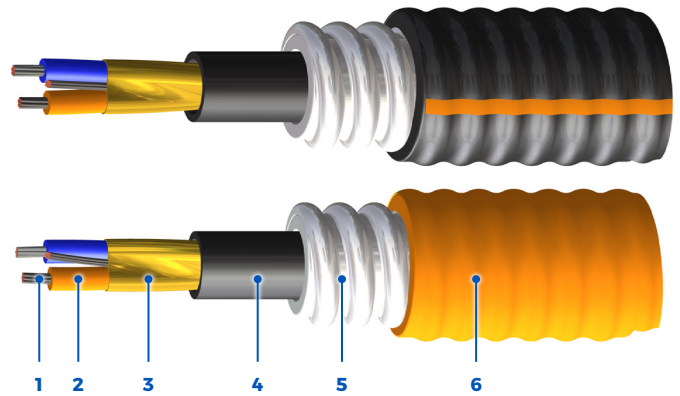


# CSA Type ACIC Armoured Fieldbus/Profibus PA, 300/600 V

Fieldbus is the Process Industries digital replacement for analog 4-20mA transmission of process variables. Depending mainly on the current requirement of each device, up to 32 sensors and actuators are possible on a Fieldbus link with a maximum transmission distance of 1900m.

## Standards:



- |   |                                       |
|---|---------------------------------------|
| 1 - Stranded Tin-coated Copper Pairs                                | 4 - FR PVC Inner Protective Jacket    |
| 2 - XLPE (RW90 Rated) Insulated Pairs (standard)                    | 5 - Aluminum Interlocked Armour (AIA) |
| 3 - Individual Aluminum/Mylar Shield with Drain Wire Over Each Pair | 6 - FR PVC Outer Protective Jacket    |

## Product Construction

### Insulation:

- XLPE (RW90 rated) rated: 90°C wet/105°C dry

### Jacket:

- FR PVC outer orange jacket (standard for Fieldbus) rated: 90°C to -40°C
- FR PVC outer purple jacket (standard for Profibus) rated: 90°C to -40°C
- Black with integral orange stripe (optional)
- Blue for Intrinsically Safe applications

### Shielding (foil-free edge):

- ISOS

### Armour:

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

### Available in:

- Custom insulation/jacket colours
- LSZH jacket

## Certification/Compliances

- Foundation Fieldbus Spec. FF-844, Type "A", H1
- 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. 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

- Blue and orange conductors (standard)

# 300 / 600 V

Voltage

# CSA Type ACIC

Fieldbus/Profibus PA

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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	AWG	in.   mm	in.   mm	lb 1000ft / kg km	lb   kg	in.   mm
6F221M140115700	1	14	0.405   10.3	0.625   15.9	0.737   18.7	215   320	66   30	13.3   337
6F222M140215700	2	14	0.640   16.3	0.856   21.7	0.968   24.6	377   561	132   60	17.4   442
6F222M140415700	4	14	0.749   19.0	0.965   24.5	1.077   27.4	484   720	263   119	19.4   492
6F222M140615700	6	14	0.942   23.9	1.150   29.2	1.262   32.1	724   1077	395   179	22.7   577
6F222M141215700	12	14	1.245   31.6	1.453   36.9	1.565   39.8	1126   1675	790   358	28.2   716
6F222M142415700	24	14	1.796   45.6	2.061   52.4	2.193   55.7	2115   3148	1579   716	39.5   1003
6F221M160115700	1	16	0.347   8.8	0.567   14.4	0.679   17.3	182   271	41   19	12.2   310
6F222M160215700	2	16	0.514   13.1	0.734   18.7	0.846   21.5	289   429	82   37	15.2   387
6F222M160415700	4	16	0.632   16.1	0.848   21.5	0.960   24.4	387   575	165   75	17.3   439
6F222M160615700	6	16	0.756   19.2	0.972   24.7	1.084   27.5	499   743	247   112	19.5   496
6F222M161215700	12	16	1.042   26.5	1.250   31.8	1.362   34.6	866   1289	494   224	24.5   623
6F222M162415700	24	16	1.438   36.5	1.646   41.8	1.778   45.2	1446   2151	989   449	32.0   813
6F221M180115700	1	18	0.303   7.7	0.523   13.3	0.635   16.1	158   235	26   12	11.4   290
6F222M180215700	2	18	0.442   11.2	0.662   16.8	0.774   19.6	237   353	52   24	13.9   354
6F222M180415700	4	18	0.514   13.1	0.734   18.6	0.846   21.5	292   435	104   47	15.2   387
6F222M180615700	6	18	0.646   16.4	0.862   21.9	0.974   24.7	391   582	156   71	17.5   445
6F222M181215700	12	18	0.887   22.5	1.095   27.8	1.207   30.7	662   985	312   142	21.7   552
6F222M182415700	24	18	1.213   30.8	1.421   36.1	1.533   38.9	1042   1551	624   283	27.6   701
6F221M14011V700	1	14	0.405   10.3	0.625   15.9	0.737   18.7	215   320	66   30	13.3   337
6F222M14021V700	2	14	0.640   16.3	0.856   21.7	0.968   24.6	377   561	132   60	17.4   442
6F222M14041V700	4	14	0.749   19.0	0.965   24.5	1.077   27.4	484   720	263   119	19.4   492
6F222M14061V700	6	14	0.942   23.9	1.150   29.2	1.262   32.1	724   1077	395   179	22.7   577
6F222M14121V700	12	14	1.245   31.6	1.453   36.9	1.565   39.8	1126   1675	790   358	28.2   716
6F222M14241V700	24	14	1.796   45.6	2.061   52.4	2.193   55.7	2115   3148	1579   716	39.5   1003
6F221M16011V700	1	16	0.347   8.8	0.567   14.4	0.679   17.3	182   271	41   19	12.2   310
6F222M16021V700	2	16	0.514   13.1	0.734   18.7	0.846   21.5	289   429	82   37	15.2   387
6F222M16041V700	4	16	0.632   16.1	0.848   21.5	0.960   24.4	387   575	165   75	17.3   439
6F222M16061V700	6	16	0.756   19.2	0.972   24.7	1.084   27.5	499   743	247   112	19.5   496
6F222M16121V700	12	16	1.042   26.5	1.250   31.7	1.362   34.6	866   1289	494   224	24.5   623
6F222M16241V700	24	16	1.438   36.5	1.646   41.8	1.778   45.2	1446   2151	989   449	32.0   813
6F221M18011V700	1	18	0.303   7.7	0.523   13.3	0.635   16.1	158   235	26   12	11.4   290
6F222M18021V700	2	18	0.442   11.2	0.662   16.8	0.774   19.7	237   353	52   24	13.9   354
6F222M18041V700	4	18	0.514   13.1	0.734   18.6	0.846   21.4	292   435	104   47	15.2   387
6F222M18061V700	6	18	0.646   16.4	0.862   21.9	0.974   24.7	391   582	156   71	17.5   445
6F222M18121V700	12	18	0.887   22.5	1.095   27.8	1.207   30.7	662   985	312   142	21.7   552
6F222M18241V700	24	18	1.213   30.8	1.421   36.1	1.533   38.9	1042   1551	624   283	27.6   701