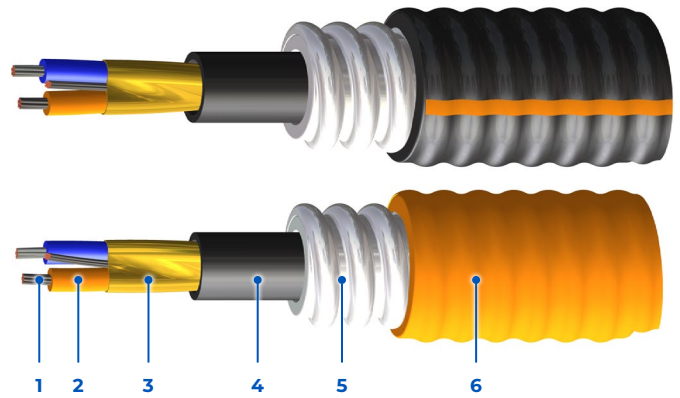


CSA ACIC Armoured Fieldbus/Profibus PA, 300/600 V

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

2 – XLPE (RW90 Rated) Insulated Pairs (standard)

3 – Individual Aluminum/Mylar Shield with Drain Wire Over Each Pair

4 – FR PVC Inner Protective Jacket

5 – Aluminum Interlocked Armour (AIA)

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 (standard)
- OS (optional)

Armour:

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

Available in:

- Custom insulation/jacket colours
- Green bonding conductor
- LSZH jacket
- Marine/shipboard cable types

Certification/Compliances

- Foundation Fieldbus Spec. FF-844, Type "A", H1
- CSA C22.2 NO. 239, Control & Instrumentation Cables (Type ACIC)
- CSA FT4, 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/105°C dry
- UV sunlight resistant "SUN RES" (all colours)

- Direct burial rated
- -40°C cold bend/impact rated
- Rated for use in hazardous locations:
 - Class I Zone 0 (Intrinsically Safe cables only)
 - Class 1 Zone 1 (Div 1)
 - Class I Zone 2 (Div 2)
 - HL-BCD gas groups rated

Colour Coding

- Blue and Orange conductors (standard)

300/ 600 V

Voltage

CSA Type ACIC

Grounding

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

PART NUMBER	NUMBER OF PAIRS	CONDUCTOR SIZE	OD OVER INNER JACKET	NORMAL DIAMETERS		CABLE WEIGHT	MAX PULLING TENSION (PULLING EYE)	MIN BEND RADIUS (PULL)
				OVER ARMOR	OVERALL CABLE			
		(AWG/kcmil)	(in/mm)	(in/mm)	(in/mm)	(lbs/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 / 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 / 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