

## CSA ACIC ARMoured FIELDBUS/PROFIBUS PA, 300/600V

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.

### VOLTAGE

300/600V

### 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

### COLOR CODING

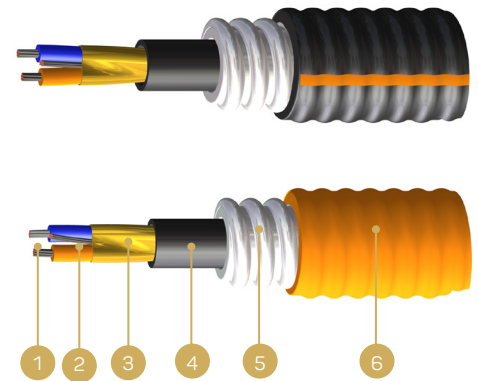
- Blue and Orange conductors (standard)

# 300/600V

VOLTAGE

# CSA Type TC

GROUNDING



1. Stranded Tinned 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

### STANDARDS:



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 ARMOUR	OVERALL CABLE			
		(AWG/MCM)	(in/mm)	(in/mm)	(in/mm)	(lbs/1000ft) (kg/km)	(lb/kg)	(in/mm)
6F221M140115700	1	14	0.405 / 10.29	0.625 / 15.87	0.737 / 18.72	215 / 320	66 / 30	13.3 / 337
6F222M140215700	2	14	0.64 / 16.25	0.856 / 21.73	0.968 / 24.58	377 / 561	132 / 60	17.4 / 442
6F222M140415700	4	14	0.749 / 19.01	0.965 / 24.51	1.077 / 27.35	484 / 720	263 / 119	19.4 / 492
6F222M140615700	6	14	0.942 / 23.93	1.15 / 29.21	1.262 / 32.06	724 / 1077	395 / 179	22.7 / 577
6F222M141215700	12	14	1.245 / 31.63	1.453 / 36.91	1.565 / 39.76	1126 / 1675	790 / 358	28.2 / 716
6F222M142415700	24	14	1.796 / 45.62	2.061 / 52.36	2.193 / 55.71	2115 / 3148	1579 / 716	39.5 / 1003
6F221M160115700	1	16	0.347 / 8.81	0.567 / 14.4	0.679 / 17.25	182 / 271	41 / 19	12.2 / 310
6F222M160215700	2	16	0.514 / 13.06	0.734 / 18.66	0.846 / 21.5	289 / 429	82 / 37	15.2 / 387
6F222M160415700	4	16	0.632 / 16.06	0.848 / 21.54	0.96 / 24.39	387 / 575	165 / 75	17.3 / 439
6F222M160615700	6	16	0.756 / 19.21	0.972 / 24.69	1.084 / 27.54	499 / 743	247 / 112	19.5 / 496
6F222M161215700	12	16	1.042 / 26.46	1.25 / 31.75	1.362 / 34.59	866 / 1289	494 / 224	24.5 / 623
6F222M162415700	24	16	1.438 / 36.54	1.646 / 41.82	1.778 / 45.17	1446 / 2151	989 / 449	32 / 813
6F221M180115700	1	18	0.303 / 7.7	0.523 / 13.28	0.635 / 16.13	158 / 235	26 / 12	11.4 / 290
6F222M180215700	2	18	0.442 / 11.22	0.662 / 16.81	0.774 / 19.65	237 / 353	52 / 24	13.9 / 354
6F222M180415700	4	18	0.514 / 13.06	0.734 / 18.64	0.846 / 21.49	292 / 435	104 / 47	15.2 / 387
6F222M180615700	6	18	0.646 / 16.41	0.862 / 21.89	0.974 / 24.74	391 / 582	156 / 71	17.5 / 445
6F222M181215700	12	18	0.887 / 22.53	1.095 / 27.82	1.207 / 30.66	662 / 985	312 / 142	21.7 / 552
6F222M182415700	24	18	1.213 / 30.8	1.421 / 36.08	1.533 / 38.93	1042 / 1551	624 / 283	27.6 / 701
6F221M14011V700	1	14	0.405 / 10.29	0.625 / 15.87	0.737 / 18.72	215 / 320	66 / 30	13.3 / 337
6F222M14021V700	2	14	0.64 / 16.25	0.856 / 21.73	0.968 / 24.58	377 / 561	132 / 60	17.4 / 442
6F222M14041V700	4	14	0.749 / 19.01	0.965 / 24.51	1.077 / 27.35	484 / 720	263 / 119	19.4 / 492
6F222M14061V700	6	14	0.942 / 23.93	1.15 / 29.21	1.262 / 32.06	724 / 1077	395 / 179	22.7 / 577
6F222M14121V700	12	14	1.245 / 31.63	1.453 / 36.91	1.565 / 39.76	1126 / 1675	790 / 358	28.2 / 716
6F222M14241V700	24	14	1.796 / 45.62	2.061 / 52.36	2.193 / 55.71	2115 / 3148	1579 / 716	39.5 / 1003
6F221M16011V700	1	16	0.347 / 8.81	0.567 / 14.4	0.679 / 17.25	182 / 271	41 / 19	12.2 / 310
6F222M16021V700	2	16	0.514 / 13.06	0.734 / 18.66	0.846 / 21.5	289 / 429	82 / 37	15.2 / 387
6F222M16041V700	4	16	0.632 / 16.06	0.848 / 21.54	0.96 / 24.39	387 / 575	165 / 75	17.3 / 439
6F222M16061V700	6	16	0.756 / 19.21	0.972 / 24.69	1.084 / 27.54	499 / 743	247 / 112	19.5 / 496
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6F222M16241V700	24	16	1.438 / 36.54	1.646 / 41.82	1.778 / 45.17	1446 / 2151	989 / 449	32 / 813
6F221M18011V700	1	18	0.303 / 7.7	0.523 / 13.28	0.635 / 16.13	158 / 235	26 / 12	11.4 / 290
6F222M18021V700	2	18	0.442 / 11.22	0.662 / 16.81	0.774 / 19.65	237 / 353	52 / 24	13.9 / 354
6F222M18041V700	4	18	0.514 / 13.06	0.734 / 18.64	0.846 / 21.49	292 / 435	104 / 47	15.2 / 387
6F222M18061V700	6	18	0.646 / 16.41	0.862 / 21.89	0.974 / 24.74	391 / 582	156 / 71	17.5 / 445
6F222M18121V700	12	18	0.887 / 22.53	1.095 / 27.82	1.207 / 30.66	662 / 985	312 / 142	21.7 / 552
6F222M18241V700	24	18	1.213 / 30.8	1.421 / 36.08	1.533 / 38.93	1042 / 1551	624 / 283	27.6 / 701

**FOR FURTHER INFORMATION, PLEASE CONTACT:**

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