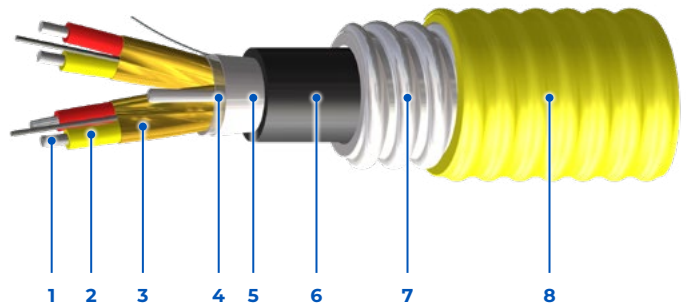


CSA ACIC Armoured Thermocouple Extension, 300 V

Shawflex Thermocouple Extension cables offer advantages in cost and mechanical properties when used for connections between thermocouples and instruments.



- 1 – Thermocouple Alloys
- 2 – Insulated Thermocouple Alloy Wires
- 3 – Individual Aluminum/Mylar Shielded Pairs with Tin-coated Copper Drain Wire
- 4 – Polyester Separator Tape
- 5 – Overall Aluminum/Mylar Shield with Tin-coated Copper Drain Wire
- 6 – FR PVC Black Inner Protective Jacket
- 7 – Aluminum Interlocked Armour (AIA)
- 8 – FR PVC Yellow Outer Protective Jacket

Standards:



Product Construction

Insulation:

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

Shielding (foil-free edge):

- ISOS (standard)
- OS (optional)

Armour:

- Aluminum Interlocked Armour (AIA) (standard)

Jacket:

- FR PVC inner black jacket (standard) rated: 90°C to -40°C
- FR PVC outer yellow jacket (standard), dependent on requested thermocouple alloy rated: 90°C to -40°C

Available in:

- Composite constructions
- Custom insulation/jacket colours
- Extension cables for type E, J, K, N, R, S and T thermocouple alloys

Certification/Compliances

- CSA C22.2 NO. 131, Teck 90 Cables (Teck 90)
- CSA C22.2 NO. 174, Cables & Cable Glands for use in Hazardous Locations
- CSA C22.2 NO. 38, Thermoset Insulated Wires & Cables (XLPE)
- 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/dry
- UV sunlight resistant "SUN RES" (all colours)
- Direct burial rated
- -40°C cold bend/impact rated

- HL rated for use in hazardous locations:
 - Class 1 Zone 0 (Intrinsically Safe cables only)
 - Class 1 Zone 1 (Div 1)
 - Class 1 Zone 2 (Div 2)
 - HL-BCD gas groups rated

Colour Coding

- Pairs – Red, yellow – for KX type
- Pairs – Red, white – for JX type
- Pairs – Red, purple – for EX type
- Pairs – Red, black – for SX/RX type
- Pairs – Red, orange – for NX type
- Pairs – Red, blue – for NX type

300 V

Voltage
(Optional: 600 V)

CSA Type ACIC

Thermocouple
Extension

CSA ACIC Armoured Thermocouple Extension, 300 V

PART NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR SIZE <i>(AWG/ MCM)</i>	OD OVER INNER JACKET <i>(in/mm)</i>	NORMAL DIAMETERS		CABLE WEIGHT <i>(lbs/1000ft) (kg/km)</i>	MAX PULLING TENSION (PULLING EYE) <i>(lb/kg)</i>	MIN BEND RADIUS (PULL) <i>(in/mm)</i>
				OVER ARMOUR <i>(in/mm)</i>	OVERALL CABLE <i>(in/mm)</i>			
74221M1601XY700	1	16	0.313 / 7.95	0.553 / 14.05	0.665 / 16.89	176 / 262	41 / 19	12 / 304
74222M1602XY700	2	16	0.458 / 11.64	0.698 / 17.74	0.81 / 20.58	266 / 396	82 / 37	14.6 / 371
74222M1604XY700	4	16	0.534 / 13.57	0.774 / 19.66	0.886 / 22.51	333 / 495	165 / 75	15.9 / 405
74222M1606XY700	6	16	0.671 / 17.04	0.911 / 23.14	1.023 / 25.98	449 / 669	247 / 112	18.4 / 468
74222M1608XY700	8	16	0.727 / 18.46	0.967 / 24.55	1.079 / 27.4	518 / 771	330 / 150	19.4 / 493
74222M1612XY700	12	16	0.922 / 23.42	1.162 / 29.52	1.274 / 32.36	770 / 1145	494 / 224	22.9 / 583
74222M1624XY700	24	18	1.264 / 32.1	1.504 / 38.2	1.616 / 41.04	1220 / 1816	989 / 449	29.1 / 739
74221M1801XY700	1	18	0.291 / 7.39	0.531 / 13.49	0.643 / 16.33	162 / 241	26 / 12	11.6 / 294
74222M1802XY700	2	18	0.422 / 10.72	0.662 / 16.82	0.774 / 19.66	240 / 357	52 / 24	13.9 / 354
74222M1804XY700	4	18	0.49 / 12.45	0.73 / 18.54	0.842 / 21.39	289 / 430	104 / 47	15.2 / 385
74222M1806XY700	6	18	0.616 / 15.64	0.856 / 21.74	0.968 / 24.58	386 / 574	156 / 71	17.4 / 442
74222M1808XY700	8	18	0.666 / 16.91	0.906 / 23	1.018 / 25.85	438 / 651	208 / 94	18.3 / 465
74222M1812XY700	12	18	0.805 / 20.44	1.045 / 26.54	1.157 / 29.39	606 / 902	312 / 142	20.8 / 529
74222M1824XY700	24	18	1.151 / 29.24	1.391 / 35.33	1.503 / 38.18	1002 / 1490	624 / 283	27.1 / 687
74221M2001XY700	1	20	0.275 / 6.98	0.515 / 13.08	0.627 / 15.93	153 / 227	16 / 7	11.3 / 287
74222M2002XY700	2	20	0.396 / 10.05	0.636 / 16.15	0.748 / 18.99	220 / 328	32 / 15	13.5 / 342
74222M2004XY700	4	20	0.458 / 11.63	0.698 / 17.73	0.81 / 20.57	261 / 389	64 / 29	14.6 / 370
74222M2006XY700	6	20	0.576 / 14.62	0.816 / 20.72	0.928 / 23.56	345 / 513	96 / 44	16.7 / 424
74222M2008XY700	8	20	0.621 / 15.78	0.861 / 21.87	0.973 / 24.72	387 / 575	128 / 58	17.5 / 445
74222M2012XY700	12	20	0.749 / 19.02	0.989 / 25.11	1.101 / 27.96	489 / 728	192 / 87	19.8 / 503
74222M2024XY700	24	20	1.069 / 27.15	1.309 / 33.25	1.421 / 36.09	861 / 1281	384 / 174	25.6 / 650