

CSA ACIC ARMoured THERMOCOUPLE EXTENSION, 300V

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

VOLTAGE

300V

Optional: 600V

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 jacket (see Colour Coding for standard colours) 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 I Zone 2 (Div 2)
 - HL-BCD gas groups rated

COLOR CODING

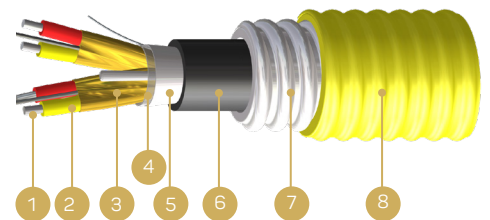
- | | | | |
|---------------|------------|---------|---------------|
| • Type EX: | (+) Purple | (-) Red | Purple jacket |
| • Type JX: | (+) White | (-) Red | Black jacket |
| • Type KX: | (+) Yellow | (-) Red | Yellow jacket |
| • Type NX: | (+) Orange | (-) Red | Orange jacket |
| • Type RX/SX: | (+) Black | (-) Red | Green jacket |
| • Type TX: | (+) Blue | (-) Red | Blue jacket |

300 V

VOLTAGE

CSA Type ACIC

THERMOCOUPLE EXTENSION



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

STANDARDS:



PART NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR SIZE (AWG/MCM)	OD OVER INNER JACKET (in/mm)	NORMAL DIAMETERS		CABLE WEIGHT (lbs/1000ft) (kg/km)	MAX. PULLING TENSION (PULLING EYE) (lb/kg)	MIN. BEND RADIUS (PULL) (in/mm)
				OVER ARMOUR (in/mm)	OVERALL CABLE (in/mm)			
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

FOR FURTHER INFORMATION, PLEASE CONTACT:

Americas: 800 422 6872

Canada: 800 845 6808

Asia Pacific: +86 512 82280099

Europe: +49 2226 9047 55

All information contained in this datasheet is believed to be reliable. We advise however that customers should separately evaluate the suitability of our products for their particular application. Shawcor gives no guarantees in respect to accuracy or sufficiency of the information presented and disclaim any liability regarding its use. Our responsibilities are only those listed in our Standard Terms and Conditions of Sale for these products. In no instance will we be liable for any eventual, indirect, or consequential damage or damages arising from the sale, resale, transfer, use or misuse of the product. Subject to modification.

SHAWFLEX PRODUCTS | shawflex.com

Version: 02 2020/AUG/19

