

## Anixter Item #: 327-1616-KX

## ShawFlex Item #: 73222M161647700

**300V CSA Type ACIC THCP EXTN, Armoured Thermocouple Extension Cable**

**16PR 16AWG solid KX thermocouple alloys, 105C FR PVC Insulation , Individual and Overall Aluminium/Mylar Tape Shielding**

**FR PVC LAG Jacket , Aluminium Interlocked Armour**

**Suitable for use in 75C Wet/105C Dry, SUN RES , -40C, FT4**

**HLBCD rated for Class I Zone 1 (Div 1), Class 1 Zone 2 (Div 2), Class II Div 1 & Class II Div 2 Hazardous Locations**

### Specification Reference

CSA C22.2 #239, Control & Instrumentation Cables

CSA C22.2 #75, Thermoplastic Insulated Wires and Cables

CSA C22.2 #174, Cables & Glands Suitable for Use in Hazardous Locations

### Electrical Characteristics

Voltage Class (volts):	300		
Max. DC Loop Resistance (ohms/Mft @25C):	230.98	(	757.81 ohms/km )
Capacitance(cond to cond)(pF / ft):	47.5	(	156.0 pF / mt )
Capacitance (cond to shield)(pF / ft):	88.9	(	292 pF / mt )
Ampacity @ 30C (amps)*:	6		
Inductive Reactance (Ohms/1000ft):	0.038	(	0.12 ohms/Km )
Characteristic Impedance (Ohms):	48.0		

### Construction Specifications

Type of Conductor Stranding:	16AWG solid KX thermocouple alloys		
ASTM Standard (Conductor):	ANSI/MC 96.1		
Diameter of Conductor (in):	0.051	(	1.30 mm )
Conductor Insulation Type:	105C FR PVC		
Insulation Thickness (in):	0.025	(	0.64 mm )
Nominal Insulated Wire Diameter (in):	0.103	(	2.62 mm )
Pair Identification:	Red & Yellow Number Coded Pairs		
Pair Twists per foot:	3.95	(	12.95 m )
Ind. Component Shield Type:	7/8" X 1.35 MIL FOIL FREE AL/MYLAR Tape		
Ind. Component Shield Drain Wire Size:	22 AWG SOLID TINNED COPPER		
Overall Separator Type:	Clear Mylar Tape ( 1mil thick )		
Type of Overall Shielding Tape:	4.0" X 1.35 MIL STR-EDGE AL/MYLAR Tape		
Overall Shielding Drain Wire Size:	20 AWG 7W TINNED COPPER		
Inner Jacket Type & Colour:	90C -40C FR LAG PVC, Black		
Average Inner Jacket Thickness (in):	0.080	(	2.03 mm )
OD Over Inner Jacket (in):	1.090	(	27.7 mm )
Armour Type:	Aluminum Interlocked Armour		
Nominal Diameter over Armour (in):	1.330	(	33.8 mm )
Outer Jacket Material Type & Colour:	90C -40C FR LAG PVC, YELLOW		
Average Outer Jacket Thickness (in):	0.050	(	1.27 mm )
Nominal Overall Diameter of Cable (in):	1.442	(	36.6 mm )
Jacket Identification:	SHAWFLEX 16PR 16AWG 300V CSA THCPL EXTN KX ACIC 75C WET/105C DRY PVC ISOS SHIELDED -40C FT4 HLBCD SUN RES MADE IN CANADA 73222M161647700 (mo#) (month year) (sequential metre marking every 1 metre)		

### Physical Characteristics

Cable Weight (lbs/Mft):	979	(	1457	kg/km )
Max. Pulling Tension (Pulling Eye) (lbs):	659	(	299	kg )
Max. Pulling Tension (Cable Grip) (lbs):	219	(	99	kg )
Min. Bending Radius: Permanent (in):	17.3	(	440	mm )
Min. Bending Radius: Pull (in):	26.0	(	659	mm )
Max. Conductor Temperature (C):	75C WET/105C DRY			
Recommended Min. Install Temp. (C):	-10C			
Copper Content(lbs/Mft):	35.2	(	52.4	kg/km )
Flame Propagation Test Rating:	CSA FT4			
Additional Ratings:	-40C Cold Impact, -40C Cold Bend , SUN RES HLBCD			

\* Ampacity value based on ABS Rules for Building and Classing Steel Vessels, Version 2009, Table-6.Values are corrected according to Table-6 for number of Conductors.

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