## ShawFlex Item #: 4C028M180210001

600V CSA Type TC INSTRUMENTATION TRAY CABLE 2PR 18AWG 7W TINNED COPPER, FR XLPE (RW90) Insulation FR PVC Jacket , Individual Aluminum/Mylar Tape Shielding , Overall Copper Tape Shield Suitable for use in 90C WET/105C DRY, SUN RES , -40C, FT4 , Direct Burial TCBCD rated for Class I Zone 2 (Div 2) & Class II Div 2 Hazardous Locations

SHAWCOR

ShawFlex, a division of Shawcor

<u>Specification Reference</u> CSA C22.2 #230, Tray Cables CSA C22.2 #38, Thermoset Insulated Wires and Cables

## Electrical Characteristics

<u>Electrical Characteristics</u> Voltage Class (volts): x. DC Conductor Res. (ohms/Mft @25C): Capacitance(cond to cond)(pF / ft): Capacitance (cond to shield)(pF / ft):	600 7.509 21.3 39.8	( (	24.64 69.87 131	ohms/km) pF / mt) pF / mt)
Ampacity @ 30C (amps)*: Inductive Reactance (Ohms/1000ft): Characteristic Impedance (Ohms):	4 0.043 78.8	(	0.14	ohms/Km )
Construction Specifications				
Type of Conductor Stranding: ASTM Standard (Conductor):	18AWG 7W TINNED COPPE ASTM B8 & ASTM B33	:R		
Diameter of Conductor (in): Conductor Insulation Type:	0.046 FR XLPE (RW90)	(	1.17	mm )
Insulation Thickness (in): Nominal Insulated Wire Diameter (in):	0.030 0.108	(	0.76 2.74	mm) mm)
Pair Identification:	Black /White & Red/Black 2.0	1	50.8	~~ )
Nominal Pair Lay (in): Ind. Component Shield Type: Ind. Component Shield Drain Wire Size:	2.0 ( 50.8 mm ) 7/8" X 1.35 MIL FOIL FREE AL/MYLAR Tape 22AWG 7W TINNED COPPER			
Nominal Cable Lay (in): Overall Separator Type:	5.4 Clear Mylar Tape (1mil thick	(	137.2	mm )
Type of Overall Shielding Tape:	1/2" X 5 MIL COPPER TAPE Gap-Stype Helical (43% Overlap)			
Jacket Material Type & Colour:	90C -40C FR PVC, BLACK	,		,
Average Jacket Thickness (in): Nominal Overall Diameter of Cable (in):	0.045 0.494	(	1.14 12.5	mm) mm)
Jacket Identification:	SHAWFLEX 2PR 18AWG 60 CIC TYPE TCBCD 90C WET DIRECT BURIAL -40C FT4 N 4C028M180210001 (mo#) (n (sequential metre marking ev	/105C DRY /ADE IN CA nonth year)	XLPE IS NADA	
Physical Characteristics Cable Weight (lbs/Mft):	143	1	214	kg/km)
Max. Pulling Tension (Pulling Eye) (lbs):	52	(	214	kg/kiii)
Max. Pulling Tension (Cable Grip) (lbs):	63	ì	29	kg)
Min. Bending Radius: Permanent (in):	5.9	Ì	151	mm )
Min. Bending Radius: Pull (in):	8.9	(	226	mm )
Max. Conductor Temperature (C):	90C WET/105C DRY			
Recommended Min. Install Temp. (C):	-25C	,	07.0	
Copper Content(lbs/Mft):	65.2 CSA FT 4	(	97.0	kg/km)
Flame Propagation Test Rating: Additional Ratings:	CSA FT-4 TCBCD , -40C Cold Impact, -40C Cold Bend , SUN RES RoHS Compliant			

\* Ampacity value based on Canadian Electrical Code, Version 2015, Table-57. Values are corrected according to number of Conductors. This specification is issued on condition that it is not copied, reprinted or disclosed either wholly or in part to any third party, or used for manufacture by any party; without the consent of ShawFlex.