ShawFlex Item #: 64222M160418700



300V CSA ACIC ARMOURED INSTRUMENTATION CABLE ShawFlex, a division of Shawcor 4PR 16AWG 7W TINNED COPPER, XLPE Insulation, Individual and Overall Aluminum/Mylar Tape Shielding FR PVC LAG Jacket, Aluminum Interlocked Armour Suitable for use in 90C WET/105C DRY, SUN RES, -40C, FT4 HLBCD rated for Class I Zone 1, Class 1 Zone 2, Class II Div 1 & Class II Div 2 Hazardous Locations

Specification Reference CSA C22.2 #239, Control & Instrumentation Cables CSA C22.2 #38, Thermoset Insulated Wires and Cables CSA C22.2 #174, Cables & Glands Suitable for Use in Hazardous Locations **Electrical Characteristics** 300 Voltage Class (volts): Max. DC Conductor Res. (ohms/Mft @25C): 4.722 15.49 ohms/km) 23.6 77.53 Capacitance(cond to cond)(pF / ft): pF / mt) Capacitance (cond to shield)(pF / ft): 44.2 pF / mt) 145 Ampacity @ 30C (amps)*: Inductive Reactance (Ohms/1000ft): 0.037 0.12 ohms/Km) Characteristic Impedance (Ohms): 65.5 **Construction Specifications** Type of Conductor Stranding: 16AWG 7W TINNED COPPER ASTM Standard (Conductor): ASTM B8 & ASTM B33 Diameter of Conductor (in): 0.058 1.47 mm) **Conductor Insulation Type:** XLPE (RW 90) Insulation Thickness (in): 0.58 mm) 0.025 2.69 Nominal Insulated Wire Diameter (in): mm) 0.106 Pair Identification: Black & White Number Coded 71.9 Nominal Pair Lay (in): mm) Ind. Component Shield Type: 7/8" X 1.35 MIL FOIL FREE AL/MYLAR Tape Ind. Component Shield Drain Wire Size: 22AWG 7W TINNED COPPER Nominal Cable Lay (in): 6.7 170.2 mm) Clear Mylar Tape (1mil thick) **Overall Separator Type:** Type of Overall Shielding Tape: 2.0" 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): 0.060 1.52 mm) 0.577 14.7 OD Over Inner Jacket (in): mm) **Aluminum Interlocked Armour** Armour Type: Nominal Diameter over Armour (in): 0.817 20.8 mm) Outer Jacket Material Type & Colour: 90C -40C FR LAG PVC, GREY Average Outer Jacket Thickness (in): 0.050 1.27 mm) Nominal Overall Diameter of Cable (in): 23.6 0.929 mm) Jacket Identification: SHAWFLEX 4PR 16AWG 300V CSA INSTRUMENTATION CABLE ACIC 90C WET/105C DRY XLPE ISOS SHIELDED -40C FT4 HLBCD SUN RES --- DIRECT BURIAL MADE IN CANADA 64222M160418700 (mo#) (month year) (sequential metre marking every 1 metre) **Physical Characteristics** Cable Weight (lbs/Mft): 363 540 kg/km) 165 75 Max. Pulling Tension (Pulling Eye) (lbs): kg) 63 Max. Pulling Tension (Cable Grip) (lbs): 138 kg) Min. Bending Radius: Permanent (in): 11.1 283 mm) 16.7 Min. Bending Radius: Pull (in): mm) Recommended Min. Install Temp. (C): -10C Copper Content(lbs/Mft): kg/km) Flame Propagation Test Rating: CSA FT4 Additional Ratings: HLBCD, -40C Cold Impact, -40C Cold Bend, SUN RES **RoHS Compliant**

in part to any third party, or used for manufacture by any party; without the consent of ShawFlex.

^{*} 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