

ShawFlex Item #: 4C02HM180110013

Specification Reference

ShawFlex, a division of Shawcor

600V CSA Type TC INSTRUMENTATION TRAY CABLE
1PR 18AWG 7W TINNED COPPER, FR XLPE (RW90) Insulation
FR PVC Jacket, 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

CSA C22.2 #230, Tray Cables

CSA C22.2 #38, Thermoset Insulated Wires and Cables **Electrical Characteristics** Voltage Class (volts): 600 Max. DC Conductor Res. (ohms/Mft @25C): 7.364 24.16 ohms/km) Capacitance(cond to cond)(pF / ft): 21.3 69.87 pF/mt) Capacitance (cond to shield)(pF / ft): 39.8 pF / mt) 131 Ampacity @ 30C (amps)*: 5 Inductive Reactance (Ohms/1000ft): 0.043 0.14 ohms/Km) Characteristic Impedance (Ohms): 78.8 **Construction Specifications** Type of Conductor Stranding: 18AWG 7W TINNED COPPER ASTM Standard (Conductor): ASTM B8 & ASTM B33 Diameter of Conductor (in): 0.046 1.17 mm) FR XLPE (RW90) Conductor Insulation Type: Insulation Thickness (in): 0.76 0.030 mm) Nominal Insulated Wire Diameter (in): 0.108 2.74 mm) Pair Identification: Black & Red Nominal Cable Lay (in): 83.8 mm) 1/2" X 5 MIL COPPER TAPE Single Helical Copper Tape (50% Overlap) Type of Conductor Shielding Tape: Jacket Material Type & Colour: 90C -40C FR PVC, BLACK Average Jacket Thickness (in): 0.045 1.14 mm) Nominal Overall Diameter of Cable (in): 0.346 8.8 mm) Jacket Identification: SHAWFLEX 1PR 18AWG 600V CSA INSTRUMENTATION CABLE CIC TYPE TCBCD 90C WET/105C DRY XLPE OS SHIELDED SUN RES DIRECT BURIAL -40C FT4 MADE IN CANADA 4C02HM180110013 (mo#) (month year) (sequential metre marking every 1 metre) **Physical Characteristics** Cable Weight (lbs/Mft): 117 kg/km) Max. Pulling Tension (Pulling Eye) (lbs): 26 12 kg) Max. Pulling Tension (Cable Grip) (lbs): 43 19 kg) Min. Bending Radius: Permanent (in): 4.2 105 mm) Min. Bending Radius: Pull (in): 6.2 158 mm) Max. Conductor Temperature (C): 90C WET/105C DRY Recommended Min. Install Temp. (C): -25C Copper Content(lbs/Mft): 38.9 58.0 kg/km) Flame Propagation Test Rating: CSA FT-4 Additional Ratings: TCBCD, -40C Cold Impact, -40C Cold Bend, SUN RES **RoHS Compliant**

No

^{*} Ampacity value based on Canadian Electrical Code, Version 2015, Table-57. Values are corrected according to number of Conductors.

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