

Anixter Item #: 2TK-0603

ShawFlex Item #: 4D010M060300000

1000V CSA Type TC CONTROL TRAY CABLE

3C 6AWG 7W BARE COPPER, FR XLPE (RW90) Insulation

FR PVC Jacket

Suitable for use in 90C Wet/Dry, SUN RES , -40C, FT4 , Direct Burial

TC rated for Class I Zone 2 (Div 2) & Class II Div 2 Hazardous Locations

Specification Reference

CSA C22.2 #230, Tray Cables

CSA C22.2 #38, Thermoset Insulated Wires and Cables

Electrical Characteristics

Voltage Class (volts):	1000		
Max. DC Conductor Res. (ohms/Mft @25C):	0.428	(	1.40 ohms/km)
Capacitance(cond to cond)(pF / ft):	16.3	(	53.4 pF / mt)
Ampacity @ 30C (amps)*:	75		
Inductive Reactance (Ohms/1000ft):	0.035	(	0.12 ohms/Km)

Construction Specifications

Type of Conductor Stranding:	6AWG 7W BARE COPPER (Concentric)
ASTM Standard (Conductor):	ASTM B8
Diameter of Conductor (in):	0.178 (4.52 mm)
Conductor Insulation Type:	FR XLPE (RW90)
Insulation Thickness (in):	0.060 (1.52 mm)
Nominal Insulated Wire Diameter (in):	0.302 (7.67 mm)
Conductor Identification:	Black, Red, Blue
Cable Twists per foot:	1.14 (3.72 m)
Overall Separator Type:	Clear Mylar Tape (1mil thick)
Ground Wire Size (uninsulated):	8AWG 7W BARE COPPER
Jacket Type & Colour:	90C -40C FR PVC, BLACK
Average Inner Jacket Thickness (in):	0.060 (1.52 mm)
Nominal Overall OD of Cable (in):	0.813 (20.7 mm)
Jacket Identification:	SHAWFLEX 3C 6AWG 1000V CSA TYPE TC 90C WET/DRY XLPE SUN RES DIRECT BURIAL -40C FT4 MADE IN CANADA 4D010M060300000 (mo#) (month year) (sequential metre marking every 1 metre)

Physical Characteristics

Cable Weight (lbs/Mft):	483	(	719	kg/km)
Max. Pulling Tension (Pulling Eye) (lbs):	629	(	285	kg)
Max. Pulling Tension (Cable Grip) (lbs):	142	(	64	kg)
Min. Bending Radius: Permanent (in):	4.9	(	124	mm)
Min. Bending Radius: Pull (in):	7.3	(	186	mm)
Max. Conductor Temperature (C):	90C WET/DRY			
Recommended Min. Install Temp. (C):	-10C			
Copper Content(lbs/Mft):	299.6	(	445.9	kg/km)
Flame Propagation Test Rating:	CSA FT-4			
Additional Ratings:	TC , -40C Cold Impact, -40C Cold Bend , SUN RES			

* Ampacity value based on Canadian Electrical Code, Version 2012, Table-2. Values are corrected according to Table-5C for number of Conductors.

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