

Anixter Item #: 2TK-0803

ShawFlex Item #: 4D010M080300000

1000V CSA Type TC CONTROL TRAY CABLE

3C 8AWG 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):	0.683	(	2.24 ohms/km)
Capacitance(cond to cond)(pF / ft):	16.7	(	54.8 pF / mt)
Ampacity @ 30C (amps)*:	55		
Inductive Reactance (Ohms/1000ft):	0.035	(	0.11 ohms/Km)

Construction Specifications

<u>Conductor Specifications:</u>		8AWG 7W BARE COPPER (Concentric)	
Type of Conductor Stranding:	ASTM Standard (Conductor):	ASTM B8	
Diameter of Conductor (in):	Conductor Insulation Type:	0.141	(3.58 mm)
Conductor Insulation Type:	Insulation Thickness (in):	FR XLPE (RW90)	(1.14 mm)
Insulation Thickness (in):	Nominal Insulated Wire Diameter (in):	0.045	(5.97 mm)
Nominal Insulated Wire Diameter (in):		0.235	
Conductor Identification:		Black, Red, Blue	
Cable Twists per foot:		1.46	(4.78 m)
Overall Separator Type:		Clear Mylar Tape (1mil thick)	
Ground Wire Size (uninsulated):		10AWG 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):		0.660	(16.8 mm)
Jacket Identification:		SHAWFLEX 3C 8AWG 1000V CSA TYPE TC 90C WET/DRY XLPE SUN RES DIRECT BURIAL -40C FT4 MADE IN CANADA 4D010M080300000 (mo#) (month year) (sequential metre marking every 1 metre)	

Physical Characteristics

Cable Weight (lbs/Mft):	315	(	468	kg/km)
Max. Pulling Tension (Pulling Eye) (lbs):	397	(	180	kg)
Max. Pulling Tension (Cable Grip) (lbs):	113	(	51	kg)
Min. Bending Radius: Permanent (in):	4.0	(	101	mm)
Min. Bending Radius: Pull (in):	5.9	(	151	mm)
Max. Conductor Temperature (C):	90C WET/DRY			
Recommended Min. Install Temp. (C):	-10C			
Copper Content(lbs/Mft):	187.9	(	279.6	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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