

Anixter Item #: 12G-1601POS

ShawFlex Item #: ST021M160110000

300V TP0(OS)TT-01, IEEE MARINE SHIPBOARD CABLE

1PR 16AWG 7W TINNED COPPER, FR PVC Insulation , Overall Aluminium/Mylar Tape Shielding

FR PVC Jacket

Suitable for use in 75C Wet/Dry

ABS & Transport Canada approved

Specification Reference		IEEE 45	
<u>Electrical Characteristics</u>			
Voltage Class (volts):	300		
Max. DC Conductor Res. (ohms/Mft @25C):	4.631	(15.19	ohms/km)
Capacitance(cond to cond)(pF / ft):	49.1	(161.2	pF / mt)
Capacitance (cond to shield)(pF / ft):	91.9	(301	pF / mt)
Ampacity @ 30C (amps)*:	18		
Inductive Reactance (Ohms/1000ft):	0.038	(0.12	ohms/Km)
Characteristic Impedance (Ohms):	46.5		
<u>Construction Specifications</u>			
Type of Conductor Stranding:	16AWG 7W TINNED COPPER (Concentric)		
ASTM Standard (Conductor):	ASTM B8 & ASTM B33		
Diameter of Conductor (in):	0.058	(1.47	mm)
Conductor Insulation Type:	FR PVC		
Insulation Thickness (in):	0.025	(0.64	mm)
Nominal Insulated Wire Diameter (in):	0.110	(2.79	mm)
Pair Identification:	Black & White		
Pair Twists per foot:	5.45	(17.90	m)
Type of Overall Shielding Tape:	1.0" X 1.35 MIL STR-EDGE AL/MYLAR Tape		
Overall Shielding Drain Wire Size:	18AWG 7W TINNED COPPER		
Jacket Type & Colour:	90C -40C FR PVC, BLACK		
Average Outer Jacket Thickness (in):	0.045	(1.14	mm)
Nominal Overall OD of Cable (in):	0.327	(8.3	mm)
Jacket Identification:	SHAWFLEX ST 1PR 16AWG TP0(OS)TT-01 300V (-35C) MARINE SHIPBOARD CABLE ANSI/IEEE Std 1580-2001 ETL LISTED 111525 MADE IN CANADA ST021M160110000 (mo#) (month year) (sequential metre marking every 1 metre)		
<u>Physical Characteristics</u>			
Cable Weight (lbs/Mft):	61	(91	kg/km)
Max. Pulling Tension (Pulling Eye) (lbs):	41	(19	kg)
Max. Pulling Tension (Cable Grip) (lbs):	40	(18	kg)
Min. Bending Radius: Permanent (in):	3.9	(100	mm)
Min. Bending Radius: Pull (in):	5.9	(150	mm)
Max. Conductor Temperature (C):	75C		
Recommended Min. Install Temp. (C):	-10C		
Copper Content(lbs/Mft):	21.4	(31.8	kg/km)
Flame Propagation Test Rating:	CSA FT-4, IEC 60332-3 Category 'A'		
Additional Ratings:	-35C Cold Impact, -40C Cold Bend		

* Ampacity value based on IEEE Standard 45, Table-9-1. Values are corrected according to Table-9-1 for number of Conductors.

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