

Anixter Item #: 12G-1816POS

ShawFlex Item #: ST022M181610000

300V TP0(IS-OS)TT-16, IEEE MARINE SHIPBOARD CABLE

16PR 18AWG 7W TINNED COPPER, FR PVC Insulation , Individual and Overall Aluminium/Mylar Tape Shielding

FR PVC Jacket

Suitable for use in 75C Wet/Dry

ABS & Transport Canada approved

Specification Reference	IEEE 45		
Electrical Characteristics			
Voltage Class (volts):	300		
Max. DC Conductor Res. (ohms/Mft @25C):	7.509	(	24.64 ohms/km)
Capacitance(cond to cond)(pF / ft):	43.4	(	142.5 pF / mt)
Capacitance (cond to shield)(pF / ft):	81.2	(	266 pF / mt)
Ampacity @ 30C (amps)*:	4		
Inductive Reactance (Ohms/1000ft):	0.040	(	0.13 ohms/Km)
Characteristic Impedance (Ohms):	52.6		
Construction Specifications			
Type of Conductor Stranding:	18AWG 7W TINNED COPPER (Concentric)		
ASTM Standard (Conductor):	ASTM B8 & ASTM B33		
Diameter of Conductor (in):	0.046	(	1.17 mm)
Conductor Insulation Type:	FR PVC		
Insulation Thickness (in):	0.025	(	0.64 mm)
Nominal Insulated Wire Diameter (in):	0.098	(	2.49 mm)
Pair Identification:	Black & White Number Coded		
Pair Twists per foot:	5.08	(	16.68 m)
Ind. Component Shield Type:	7/8" X 1.35 MIL FOIL FREE AL/MYLAR Tape		
Ind. Component Shield Drain Wire Size:	20 AWG 7W TINNED COPPER		
Overall Separator Type:	Clear Mylar Tape (1mil thick)		
Type of Overall Shielding Tape:	1.5" X 1.35 MIL STR-EDGE AL/MYLAR Tape		
Overall Shielding Drain Wire Size:	20 AWG 7W TINNED COPPER		
Jacket Type & Colour:	90C -40C FR PVC, BLACK		
Average Outer Jacket Thickness (in):	0.080	(	2.03 mm)
Nominal Overall OD of Cable (in):	1.031	(	26.2 mm)
Jacket Identification:	SHAWFLEX ST 16PR 18AWG TP0(IS-OS)TT-16 300V (-35C) MARINE SHIPBOARD CABLE ANSI/IEEE Std 1580-2001 ETL LISTED 111525 MADE IN CANADA ST022M181610000 (mo#) (month year) (sequential metre marking every 1 metre)		
Physical Characteristics			
Cable Weight (lbs/Mft):	538	(	800 kg/km)
Max. Pulling Tension (Pulling Eye) (lbs):	416	(	189 kg)
Max. Pulling Tension (Cable Grip) (lbs):	239	(	108 kg)
Min. Bending Radius: Permanent (in):	12.4	(	314 mm)
Min. Bending Radius: Pull (in):	18.6	(	471 mm)
Max. Conductor Temperature (C):	75C		
Recommended Min. Install Temp. (C):	-10C		
Copper Content(lbs/Mft):	221.6	(	329.7 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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