

Anixter Item #: 12G-1612POS

ShawFlex Item #: ST022M161210000

300V TP0(IS-OS)TT-12, IEEE MARINE SHIPBOARD CABLE

12PR 16AWG 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):	4.722	(	15.49 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)*:	6		
Inductive Reactance (Ohms/1000ft):	0.038	(	0.12 ohms/Km)
Characteristic Impedance (Ohms):	46.5		

Construction Specifications

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 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:	18AWG 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):	1.021	(	25.9 mm)
Jacket Identification:	SHAWFLEX ST 12PR 16AWG TP0(IS-OS)TT-12 300V (-35C) MARINE SHIPBOARD CABLE ANSI/IEEE Std 1580-2001 ETL LISTED 111525 MADE IN CANADA ST022M161210000 (mo#) (month year) (sequential metre marking every 1 metre)		

Physical Characteristics

Cable Weight (lbs/Mft):	566	(	843 kg/km)
Max. Pulling Tension (Pulling Eye) (lbs):	494	(	224 kg)
Max. Pulling Tension (Cable Grip) (lbs):	237	(	107 kg)
Min. Bending Radius: Permanent (in):	12.3	(	311 mm)
Min. Bending Radius: Pull (in):	18.4	(	467 mm)
Max. Conductor Temperature (C):	75C		
Recommended Min. Install Temp. (C):	-10C		
Copper Content(lbs/Mft):	264.2	(	393.2 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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