Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



9451SB Multi-Conductor - Audio, Control and Instrumentation Shipboard Cable





For more Information please call

1-800-Belden1



Description:

22 AWG stranded (7x30) tinned copper conductors, polypropylene insulation, twisted pair, overall Beldfoil shield (100% coverage), 22 AWG stranded TC drain wire, LSZH jacket.

Usage (Overall)

Suitable Applications:

Audio, Control, or Instrumentation for Marine Shipboard and Offshore use

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
1	22	7x30	TC - Tinned Copper

Insulation

Insulation Material:

Insulation Material Wall Thickness (mm) PP - Polypropylene | 0.2032

Outer Shield

Outer Shield Material:

Outer Shield Trade Name		Type	Outer Shield Material	Coverage (%)
	Beldfoil®	Таре	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire AWG:

AWG Stranding		Drain Wire Conductor Material		
22	7x30	TC - Tinned Copper		

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
LSZH - Low Smoke Zero Halogen	0.8128

Overall Cabling

Overall Nominal Diameter: 4.064 mm

Pair

Pair Color Code Chart:



Pair Lay Length & Direction:

Lay Length (mm)	Twists/ft. (twist/m)
44.449825	22.508

Me	Mechanical Characteristics (Overall)						
	Operating Temperature Range:	-30°C To +105°C					
	UL Temperature Rating:	105°C					
	Bulk Cable Weight:	28.425 Kg/Km					
	Max. Recommended Pulling Tension:	120.101 N					

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Min. Bend Radius (Install)/Minor Axis: 38.100 mm

Applicable Standards & Environmental Programs					
NEC/(UL) Specification:	CMG-LS				
CEC/C(UL) Specification:	CMG-LS				
IEEE Specification:	Std. 45 clause 23				
EU CE Mark:	Yes				
EU Directive 2000/53/EC (ELV):	Yes				
EU Directive 2002/95/EC (RoHS):	Yes				
EU RoHS Compliance Date (mm/dd/yyyy):	08/01/2005				
EU Directive 2002/96/EC (WEEE):	Yes				
EU Directive 2003/11/EC (BFR):	Yes				
CA Prop 65 (CJ for Wire & Cable):	Yes				
MII Order #39 (China RoHS):	Yes				
Other Specification:	UL444, ABS Type Approval Certificate 05-HS500072B				
Flame Test					
UL Flame Test:	UL1685 FT4 Loading, Limited Smoke				
C(UL) Flame Test:	FT4, Limited Smoke				
IEC Flame Test:	60332-1, 60332-3-22 (Category A)				
IEEE Flame Test:	1202				
Suitability					
Suitability - Indoor:	Yes				
Suitability - Outdoor:	Yes				
Sunlight Resistance:	Yes				
Plenum/Non-Plenum					
Plenum (Y/N):	No				

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm) 45

Nom. Inductance:

Inductance (µH/m) 0.55777

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 114.835

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 219.827

Nominal Velocity of Propagation:

VP (%) 66

Nominal Delay:

Delay (ns/m) 4.9215

Nom. Conductor DC Resistance:

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DCR @ 20°C (Ohm/km) 46.2621

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 46.9183

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Current
2.9 Amps per conductor @ 25°C

Notes (Overall)

Notes: The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9451SB 0101000	305 MT	9.072 KG	BLACK	С	2 #22 PP FS FRNHPO

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 5 Revision Date: 02-20-2009

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