Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



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





For more Information please call

1-800-Belden1



General 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

Total Number of Conductors: 2

Insulation

Insulation Material:

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

Outer Shield

Outer Shield Material:

Outer Shield Trade Name Typ		Outer Shield Material	Coverage (%)
Beldfoil®	Tape	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 Cable

Overall Nominal Diameter: 4.064 mm

Pair

Pair Color Code Chart:

Number Color			
1	Black & Red		

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +105°C
UL Temperature Rating:	105°C
Bulk Cable Weight:	26.788 Kg/Km
Max. Recommended Pulling Tension:	120.101 N
Min. Bend Radius/Minor Axis:	44.450 mm

Page 1 of 3 08-21-2013

Detailed Specifications & Technical Data





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

Applicable Standards & Environmental Programs					
NEC/(UL) Specification:	CMG-LS				
CEC/C(UL) Specification:	CMG-LS				
EU Directive 2011/65/EU (ROHS II):	Yes				
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				
lame Test					
UL Flame Test:	UL1685 FT4 Loading, Limited Smoke				
CSA Flame Test:	FT4				
IEC Flame Test:	60332-1, 60332-3-22 (Category A)				
IEEE Flame Test:	1202				
uitability					
Suitability - Indoor:	Yes				
Suitability - Outdoor:	Yes				
Sunlight Resistance:	Yes				
lenum/Non-Plenum					
Plenum (Y/N):	No				

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



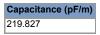
Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



Nominal Velocity of Propagation:



Nominal Delay:



Page 2 of 3 08-21-2013

Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



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

Nom. Conductor DC Resistance:

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.

Put Ups and Colors:

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

Notes:

C = CRATE REEL PUT-UP.

Revision Date: 09-05-2012 Revision Number: 5

© 2013 Belden, Inc All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.