

Part Number: 9451SB

Audio Cable, 1 Pair 22 AWG, TC, Shielded, Shipboard



Product Description

Audio Cable, 1 Pair 22 AWG stranded (7x30) tinned copper conductors, polypropylene insulation, overall Beldfoil® shield (100% coverage), 22 AWG stranded TC drain wire, LSZH jacket.

Technical Specifications

Product Overview

Environmental Space:	Indoor/Outdoor
Suitable Applications:	Audio, Control, or Instrumentation for Marine Shipboard and Offshore use

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22	7x30	TC - Tinned Copper	0.0285	1

Conductor Count:	2
Total Number of Pairs:	1

Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PP - Polypropylene	0.046 in	0.008 in

Color Chart

Number	Color
1	Black & Red

Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire Diameter	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	0.030 in	22	7x30

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen	0.16 in	0.032 in
	0.160 in	

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR	Conductor Resistance	Nominal Outer Shield DCR
14.1 Ohm/1000ft	14.1 Ohm/1000ft		14.3 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
35 pF/ft	67 pF/ft

Inductance

Nominal Inductance

0.17 μ H/ft

Impedance

Nominal Characteristic Impedance

45 Ohm

Delay

Nominal Delay | Nominal Velocity of Propagation (VP) [%]

1.5 ns/ft | 66 %

Current

Max. Recommended Current [A]

2.9 Amps per conductor @ 25°C

Voltage

UL Voltage Rating

300 V RMS

Temperature Range

UL Temp Rating:	105°C
Operating Temp Range:	-30°C To +105°C

Mechanical Characteristics

Bulk Cable Weight:	18 lbs/1000ft
Max Recommended Pulling Tension:	27 lbs
Min Bend Radius/Minor Axis:	1.75 in

Standards

NEC/(UL) Specification:	CMG-LS
CEC/C(UL) Specification:	CMG-LS
CPR Euroclass:	Fca
IEEE Specification:	Std. 45 clause 23
Other Specification:	UL444, ABS Type Approval Certificate 05-HS500072B

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-08-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading, Limited Smoke
CSA Flammability:	FT4
ISO/IEC Flammability:	60332-1^60332-3-22 (Category A)
IEEE Flammability:	1202
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	UPC	Length	Footnote
9451SB 0101000	Black	612825253167	1,000 ft	C

Footnote: C - CRATE REEL PUT-UP.

Product Notes

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

History

Update and Revision: Revision Number: 0.273 Revision Date: 08-22-2019

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