Belden



Product: 8723SB

Audio & Instrumentation, 2 Pair 22 AWG, TC, Individually Shielded, Shipboard

Product Description

Audio & Instrumentation, 22 AWG stranded (7x30) tinned copper conductors, twisted pairs, polypropylene insulation, individually shielded with 100% Beldfoil® shield (100% coverage), 24 AWG stranded tinned copper drain wire, LSZH jacket.

Technical Specifications

Product Overview

Suitable Applications:	shipboard applications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, …); line level audio; panel wiring

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	2	22 AWG	7x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PP - Polypropylene	0.009 in (0.23 mm)	0.046 in (1.2 mm)	Black & Red, Green & White

Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type	Notes
Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC	foil-out tape on each pair, one drain wire

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.034 in (0.86 mm)	0.196 in (4.98 mm)

Overall Cable Diameter (Nominal):	0.196 in (4.98 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Inductance	Nom. Velocity of Prop.	Max. Current
Pair(s)	18.2 Ohm/1000ft	18.38 Ohm/1000ft (60.30 Ohm/km)	35 pF/ft (110 pF/m)	62 pF/ft (200 pF/m)	45 Ohm	0.17 µH/ft (0.56 µH/m)	66%	2.8 Amps per Conductor at 25ºC

Voltage

UL Voltage Rating
300 V (CMG-LS)

Mechanical Characteristics

Temperature

UL Temperature	Operating
105°C	-30°C to +105°C

Bend Radius

Stationary Min.	Installation Min.

2.0 in (51 mm)	2.0 in (51 mm)

Max. Pull Tension:	42 lbs (19 kg)
Bulk Cable Weight:	24 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Non-Halogenated
Flammability / Reaction to Fire:	UL 1685 FT4 Loading, IEEE 1202, IEC 60332-1-2, IEC 60332-3-22
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMG-LS
CEC / C(UL) Compliance:	CMG-ST1
IEEE Compliance:	Std. 45 Clause 23
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

Notes:	UL444, ABS Certificate 20-2049434-PDA

History

Update and Revision:	Revision Number: 0.508 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
8723SB 0101000	Black	Reel	1,000 ft	612825214595	C

Footnote:	C - CRATE REEL PUT-UP.

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