



Product: [1802B](#)

Audio Cable, 2 Pair 24 AWG, TC, CMR

Product Description

Digital Audio Cable, 2 pair 24 AWG stranded tinned copper with Datalene® insulation, Beldfoil® shield, drain, CMR PVC jacket, parallel construction.

Technical Specifications

Product Overview

Suitable Applications:	Multi-channel interconnect between audio equipment such as microphones, speakers, amplifiers, mixing consoles; Live events or studio sound; Analog audio
------------------------	--

Physical Characteristics (Overall)

Conductor				
AWG	Stranding	Material	Nominal Diameter	No. of Pairs
24	7x32	TC - Tinned Copper	0.024 in	2
Conductor Count:			4	
Total Number of Pairs:			2	

Insulation		
Material	Material Trade Name	Nominal Diameter
PE - Polyethylene (Foam)	Datalene®	0.68 in

Color Chart	
Number	Color
1	Red & Black
2	Red & Black

Inner Shield						
Type	Material	Material Trade Name	Coverage [%]	Drainwire Diameter	Drainwire AWG	Drainwire Construction n x D
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	0.024 in	24	7x32
Table Notes:			Indiv. Foil tapes bonded to inner jacket			

Outer Shield

Material
No Shield

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	.180 x .360 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
23.7 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
12 pF/ft	26 pF/ft

Inductance

Nominal Inductance
0.18 μ H/ft

Impedance

Nominal Characteristic Impedance
110 Ohm

High Frequency (Nominal/Typical)

Nom. Insertion Loss
0.69 dB/100ft
0.93 dB/100ft
0.96 dB/100ft
1.07 dB/100ft
1.19 dB/100ft
1.21 dB/100ft
1.31 dB/100ft
1.41 dB/100ft
1.45 dB/100ft
1.57 dB/100ft
1.76 dB/100ft
1.83 dB/100ft
2.01 dB/100ft
2.24 dB/100ft
2.3 dB/100ft
3.08 dB/100ft

Delay

Nominal Velocity of Propagation (VP) [%]
76%

High Frequency

Frequency [MHz]
0.384 MHz
0.7056 MHz
0.768 MHz
1.024 MHz
1.4112 MHz
1.536 MHz
2.048 MHz
2.8224 MHz
3.072 MHz
4.096 MHz
5.6448 MHz
6.144 MHz
8.192 MHz
11.2896 MHz
12.288 MHz
24.576 MHz

Current

Max. Recommended Current [A]
2.75 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

UL Temp Rating:	60°C
Operating Temperature Range:	-30°C To +60°C

Mechanical Characteristics

UV Resistance:	No
Bulk Cable Weight:	33 lbs/1000ft
Max. Pull Tension:	33 lbs
Min. Bend Radius/Minor Axis:	2 in

Standards

NEC/(UL) Compliance:	CMR
CEC/C(UL) Compliance:	CMR
CPR Euroclass:	Eca
Other Specification:	AES/EBU

Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum)
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	No
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Suitability - Sunlight Resistance:	No

Flammability, LSOH, Toxicity Testing

CSA Flammability:	FT4
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
1802B 010N1000	Black	Reel w/Small Barrel	1,000 ft	612825123071
1802B Z4B5000	Violet	Reel	5,000 ft	612825430018
1802B Z4B500	Violet Z4B	Reel	500 ft	612825123064
1802B Z4B1000	Violet Z4B	Reel	1,000 ft	612825123057
1802B Z4BU1000	Violet Z4B	UnReel	1,000 ft	612825123040
1802B Z4BN1000	Vio Z4B	Reel w/Small Barrel	1,000 ft	612825123033

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

Product Notes

Notes:	For cross-connect use with 1803F (et al.) Digital Audio Snake Cables. The jacket and shield are bonded so both can be removed on automatic stripping equipment.
--------	---

History

Update and Revision:	Revision Number: 0.479 Revision Date: 01-10-2024
----------------------	--

© 2024 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 here in 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 "ASIS" 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 all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information 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. The 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.