



Part Number: 1801B

Audio Cable, 2 Conductor 24 AWG, TC, CMP

Product Description

Digital Audio Cable, Plenum-CMP, 1-24 AWG stranded tinned copper pair with foam FEP insulation, Beldfoil® shield, drain, Flamarrest® jacket

Technical Specifications

Product Overview

Environmental Space:	Indoor - Plenum
----------------------	-----------------

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
24	7x32	TC - Tinned Copper	0.024 in	1

Conductor Count:	2
------------------	---

Insulation

Material	Material Trade Name	Nominal Diameter
FFEP - Foam Fluorinated Ethylene Propylene	Teflon®	0.066 in

Color Chart

Number	Color
1	Red & Black

Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	24	7x32 mm

Outer Jacket Material

Material	Material Trade Name	Nominal Diameter
LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.165 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 µH/ft

Impedance

Nominal Characteristic Impedance

110 Ohm

High Frequency (Nominal/Typical)

Nom. Insertion Loss
0.82 dB/100ft
1.01 dB/100ft
1.02 dB/100ft
1.08 dB/100ft
1.15 dB/100ft
1.16 dB/100ft
1.23 dB/100ft
1.34 dB/100ft
1.38 dB/100ft
1.58 dB/100ft
1.79 dB/100ft
1.85 dB/100ft
2.05 dB/100ft
2.34 dB/100ft
2.43 dB/100ft
3.33 dB/100ft

Delay

Nominal Velocity of Propagation (VP) [%]
78 %

High Freq

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 @ 25°C

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

UL Temp Rating:	75°C
Operating Temp Range:	-20°C To +75°C

Mechanical Characteristics

UV Resistance:	Yes - Black only
Bulk Cable Weight:	12 lbs/1000ft
Max Recommended Pulling Tension:	16.5 lbs
Min Bend Radius/Minor Axis:	1.75 in

Standards

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

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/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):	2005-10-01
CA Prop 65 (CJ for Wire & Cable):	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, LS0H, Toxicity Testing

CSA Flammability:	FT6
ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
---------------	-----

Part Number

Non-Plenum Number:	1800B
--------------------	-------

Variants

Item #	Color	UPC	Length	Footnote
1801B 0081000	Gray	612825416661	1,000 ft	
1801B 8771000	Natural	612825122951	1,000 ft	C
1801B 877500	Natural	612825122968	500 ft	C
1801B 877U1000	Natural	612825122944	1,000 ft	
1801B 8775000	Natural	612825430056	5,000 ft	
1801B Z4B1000	Violet Z4B	612825122920	1,000 ft	C
1801B Z4B500	Violet Z4B	612825122937	500 ft	
1801B Z4BU1000	Violet Z4B	612825122913	1,000 ft	

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

Product Notes

Notes:	Teflon« is a registered trademark of Chemours and is used under license by Belden, Inc.
--------	---

History

Update and Revision:	Revision Number: 0.279 Revision Date: 08-22-2019
----------------------	--

© 2019 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.