



Part Number: 1801B

Audio Cable, #24-2c, TC, O/A Foil, 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
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Physical Characteristics (Overall)

Conductor

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

Conductor Count:	2
Conductor Size:	24 AWG

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

Shielding:	Foil(s) or Copper Tape(s)
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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
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Part Number

Non-Plenum Number:	1800B
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Variants

Item #	Color	Footnote
1801B 0081000		
1801B 0081000		
1801B 8771000	Natural	C
1801B 877500	Natural	C
1801B 877U1000	Natural	
1801B Z4B1000	Violet Z4B	C
1801B Z4B500	Violet Z4B	
1801B Z4BU1000	Violet Z4B	

Footnote:	C - CRATE REEL PUT-UP.
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