



Part Number: 1800F

Audio Cable, 1 Pair 24 AWG BC, CL2R

Product Description

Digital Audio Cable, 1 Pair 24 AWG stranded (42x40) bare copper pair with Datalene® insulation, fillers, + 95% tinned copper braid, drain, Riser, flexible PVC jacket.

Technical Specifications

Product Overview

Environmental Space:	Indoor - Riser
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
24	42x40	BC - Bare Copper	0.024 in	1

Conductor Count:	2
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Insulation

Material	Material Trade Name	Nominal Diameter
FHDPE - Foamed High Density Polyethylene	Datalene®	0.058 in

Color Chart

Number	Color
1	Red & Black

Outer Shield Material

Type	Material	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
French Braid	TC - Tinned Copper	95 %	BC - Bare Copper	26	Stranded mm

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.211 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
23.7 Ohm/1000ft	6.42 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
0.46 dB/100ft
0.67 dB/100ft
0.7 dB/100ft
0.83 dB/100ft
1.04 dB/100ft
1.09 dB/100ft
1.3 dB/100ft
1.66 dB/100ft
1.75 dB/100ft
2.23 dB/100ft
2.89 dB/100ft
3.07 dB/100ft
3.71 dB/100ft
4.53 dB/100ft
4.78 dB/100ft
7.11 dB/100ft

Delay

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

High Freq

Frequency [MHz]
0.384 MHz
0.706 MHz
0.768 MHz
1.024 MHz
1.411 MHz
1.536 MHz
2.048 MHz
2.822 MHz
3.072 MHz
4.096 MHz
5.645 MHz
6.144 MHz
8.192 MHz
11.29 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

Non-UL Temp Rating:	60°C
Operating Temp Range:	-20°C To +60°C

Mechanical Characteristics

UV Resistance:	Yes - Black only
Bulk Cable Weight:	24 lbs/1000ft
Max Recommended Pulling Tension:	41.5 lbs
Min Bend Radius/Minor Axis:	2.25 in

Standards

NEC/(UL) Specification:	CL2R
Other Specification:	AES/EBU Digital Audio

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):	2004-01-01
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

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL 1666 Riser
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
1800F B591000	Black, Matte	612825122838	1,000 ft	C
1800F B59500	Black, Matte	612825122845	500 ft	C
1800F B59U1000	Black, Matte	612825122821	1,000 ft	
1800F B5910000	Black, Matte	612825429944	10,000 ft	
1800F B5910000	Black, Matte	612825429944	10,000 ft	
1800F G7XU1000	Blue, Matte	612825122876	1,000 ft	
1800F U90U1000	Gray, Matte	612825122890	1,000 ft	
1800F G7WU1000	Green, Matte	612825122869	1,000 ft	
1800F G7VU1000	Red, Matte	612825122852	1,000 ft	
1800F Z4BU1000	Violet Z4B	612825122906	1,000 ft	
1800F G8MU1000	Yellow, Matte	612825122883	1,000 ft	

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

Notes:	Datalene« insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.
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History

Update and Revision:	Revision Number: 0.291 Revision Date: 08-22-2019
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