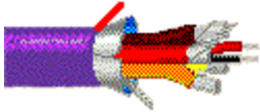




Product: [1850F](#)



Audio Snake Cable, 16 Pr #24 Str TC, Individ. Shielded and Jacketed, O/A Foil, Flexible PVC Jkt, CMG

Product Description

Digital Audio Snake Cable, 16 Pair 24 AWG (7 x 32) Tinned Copper, Datalene® insulation, Individually Foil Shielded and Jacketed, Overall Beldfoil® Shield, Flexible PVC Jacket, CMG

Technical Specifications

Product Overview

Suitable Applications:	Multi-channel interconnect between audio equipment such as microphones, speakers, amplifiers, mixing consoles; Live events or studio sound; Digital audio
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
24	7x32	TC - Tinned Copper	0.024 in	16

Conductor Count:	32
Total Number of Pairs:	16

Insulation

Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
PE - Polyethylene (Foam)	Datalene®	0.068 in	0.022 in

Color Chart

Number	Color
1	Brown and Numbered 1
2	Red and Numbered 2
3	Orange and Numbered 3
4	Yellow and Numbered 4
5	Green and Numbered 5
6	Blue and Numbered 6
7	Purple and Numbered 7
8	Gray and Numbered 8
9	White and Numbered 9
10	Black and Numbered 10
11	Tan and Numbered 11
12	Pink and Numbered 12
13	Gray/Brown Stripe and Numbered 13
14	Gray/Red Stripe and Numbered 14
15	Gray/Orange Stripe and Numbered 15
16	Gray/Yellow Stripe and Numbered 16

Color Chart 2

Number	Color
1	Red & Black
2	Red & Black
3	Red & Black
4	Red & Black

5	Red & Black
6	Red & Black
7	Red & Black
8	Red & Black
9	Red & Black
10	Red & Black
11	Red & Black
12	Red & Black
13	Red & Black
14	Red & Black
15	Red & Black
16	Red & Black

Inner Shield

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire Diameter	Drainwire AWG	Drainwire Construction n x D
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	0.024 in	24	Stranded

Table Notes: Indiv. Foil tapes bonded to inner jacket

Inner Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.167 in	0.014 in

Outer Shield

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire Diameter	Drainwire AWG	Drainwire Construction n x D
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	0.060 in	16	Stranded

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.944 in	0.078 in	Yes

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance
23.7 Ohm/1000ft	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)

Frequency [MHz]	Nom. Insertion Loss
0.384 MHz	0.29 dB/100ft
0.706 MHz	0.71 dB/100ft
0.768 MHz	0.77 dB/100ft
1.024 MHz	0.94 dB/100ft
1.411 MHz	1.1 dB/100ft
1.536 MHz	1.1 dB/100ft
2.048 MHz	1.3 dB/100ft
2.822 MHz	1.4 dB/100ft
3.072 MHz	1.4 dB/100ft
4.096 MHz	1.5 dB/100ft
5.645 MHz	1.7 dB/100ft
6.144 MHz	1.8 dB/100ft
8.192 MHz	2 dB/100ft

11.29 MHz	2.2 dB/100ft
12.288 MHz	2.3 dB/100ft
24.576 MHz	3.1 dB/100ft

Delay

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

High Frequency

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 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

Bulk Cable Weight:	367 lbs/1000ft
Max. Pull Tension:	264 lbs
Min. Bend Radius/Minor Axis:	9.5 in

Standards

NEC/(UL) Compliance:	CMG
CEC/C(UL) Compliance:	CMG
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 2003/11/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
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Suitability

Suitability - Indoor:	Yes
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Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
1850F Z4B500	Violet Z4B	Reel	500 ft	612825124436
1850F Z4B1000	Violet Z4B	Reel	1,000 ft	612825124429

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

Notes:	Pair jackets and shields are bonded so both strip simultaneously with automatic stripping equipment. 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: 0.411 Revision Date: 12-19-2022
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