



**Part Number:** 1850F

Audio Snake Cable, #24-16pr, TC, Indiv. Shielded, CMG

## Product Description

Digital Audio Snake Cable, CMG-Rated, 16-24 AWG tinned copper pairs, Datalene® insulation, individually shielded with Beldfoil, numbered/color-coded PVC jackets, flexible PVC jacket

## Technical Specifications

### Construction and Dimensions

#### Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
24	7x32	TC - Tinned Copper	0.024 in	16
Total Number of Conductors:			32	

#### Insulation:

Material	Material Trade Name	Nominal Diameter
FHDPE - Foam High Density Polyethylene	Datalene®	0.068 in

#### Color Chart 1:

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	Number
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

**Innershield:**

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

### Innerjacket:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.167 in

### Outershield 1:

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	16	Stranded mm

### Outerjacket 1:

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.944 in	Yes

## 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

### 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 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

## Inductance:

### Nominal Inductance

0.18 µH/ft

## Voltage:

### UL Voltage Rating

300V RMS V

## Use

Max Recommended Pulling Tension:

264 lbs

## Safety

C(UL) Flammability:

FT4

UL Flammability:

UL1685 FT4 Loading

## Temperature Range

Operating Temp Range:

-30°C To +60°C °C

UL Temp Rating:

60°C °C

## Mechanical Characteristics

Min Bend Radius/Minor Axis:

9.5 in

## Part Number

Plenum (Y/N):

No

## Standards

CA Prop 65 (CJ for Wire & Cable):

Yes

CEC/C(UL) Specification:

CMG

MII Order #39 (China RoHS):

Yes

NEC/(UL) Specification:

CMG

Other Specification:

AES/EBU

EU Directive Compliance:

EU Directive 2003/11/EC (BFR)

EU CE Mark:	Yes
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## History

Notes:	Pair jackets and shields are bonded so both strip simultaneously with automatic stripping equipment. Datalenex 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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## Product Variants

Part Number	Color	Put-Up Type	Length
1850F	VIOLET Z4B	Reel	1000 ft
1850F	VIO Z4B	Reel	305 m
1850F Z4B1000	VIOLET Z4B	Reel	1000 ft
1850F	VIOLET Z4B	Reel	500 ft
1850F	VIO Z4B	Reel	152 m
1850F Z4B500	VIOLET Z4B	Reel	500 ft
1850F			

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