



Product: [1802B](#)

Audio Cable, 2 Pair 24 AWG, TC, CMR

Product Description

Digital Audio Cable, 2 pair 24 AWG stranded tinned copper with Datalene® insulation, Beldfoil® shield, drain, CMR PVC jacket, parallel construction.

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | Multi-channel interconnect between audio equipment such as microphones, speakers, amplifiers, mixing consoles; Live events or studio sound; Analog audio |
|------------------------|--|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Nominal Diameter | No. of Pairs |
|-----|-----------|--------------------|------------------|--------------|
| 24 | 7x32 | TC - Tinned Copper | 0.024 in | 2 |

| | |
|------------------------|---|
| Conductor Count: | 4 |
| Total Number of Pairs: | 2 |

Insulation

| Material | Material Trade Name | Nominal Diameter |
|--------------------------|---------------------|------------------|
| PE - Polyethylene (Foam) | Datalene® | 0.68 in |

Color Chart

| Number | Color |
|--------|-------------|
| 1 | Red & Black |
| 2 | Red & Black |

Inner Shield

| Type | Material | Material Trade Name | Coverage [%] | Drainwire Diameter | Drainwire AWG | Drainwire Construction n x D |
|------|-------------------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Bi-Laminate (Alum+Poly) | Beldfoil® | 100% | 0.024 in | 24 | 7x32 |

| | |
|--------------|--|
| Table Notes: | Indiv. Foil tapes bonded to inner jacket |
|--------------|--|

Outer Shield

| Material |
|-----------|
| No Shield |

Outer Jacket

| Material | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | .180 x .360 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 μ H/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 Frequency

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 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

| | |
|------------------------------|---------------|
| UV Resistance: | No |
| Bulk Cable Weight: | 33 lbs/1000ft |
| Max. Pull Tension: | 33 lbs |
| Min. Bend Radius/Minor Axis: | 2 in |

Standards

| | |
|-----------------------|---------|
| NEC/(UL) Compliance: | CMR |
| CEC/C(UL) Compliance: | CMR |
| 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 2003/96/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 |

Suitability

| | |
|------------------------------------|-----|
| Suitability - Aerial: | No |
| Suitability - Burial: | No |
| Suitability - Hazardous Locations: | No |
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | No |
| Suitability - Sunlight Resistance: | No |

Flammability, LSOH, Toxicity Testing

| | |
|--------------------|-----------|
| CSA Flammability: | FT4 |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Related Part Numbers

Variants

| Item # | Color | Put-Up Type | Length | UPC |
|----------------|------------|---------------------|----------|--------------|
| 1802B 010N1000 | Black | Reel w/Small Barrel | 1,000 ft | 612825123071 |
| 1802B Z4B5000 | Violet | Reel | 5,000 ft | 612825430018 |
| 1802B Z4B500 | Violet Z4B | Reel | 500 ft | 612825123064 |
| 1802B Z4B1000 | Violet Z4B | Reel | 1,000 ft | 612825123057 |
| 1802B Z4BU1000 | Violet Z4B | UnReel | 1,000 ft | 612825123040 |
| 1802B Z4BN1000 | Vio Z4B | Reel w/Small Barrel | 1,000 ft | 612825123033 |

Footnote: C - CRATE REEL PUT-UP.

Product Notes

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|--------|---|
| Notes: | For cross-connect use with 1803F (et al.) Digital Audio Snake Cables. The jacket and shield are bonded so both can be removed on automatic stripping equipment. |
|--------|---|

History

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| Update and Revision: | Revision Number: 0.479 Revision Date: 01-10-2024 |
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