

# Part Number: 1800B

Audio Cable, 2 Conductor 24 AWG, TC, CMR

## Product Description

Digital Audio Cable, CMG-Rated, 1-24 AWG stranded tinned copper pair with Datalene® insulation, Beldfoil® shield, drain, PVC jacket

## Technical Specifications

### Product Overview

| | |
|---|---|
| Environmental Space: | Indoor (Not Riser or Plenum) |

### 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 |
|---|---|---|
| FHDPE - Foamed High Density Polyethylene | Datalene® | 0.068 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 | Nominal Diameter |
|---|---|
| PVC - Polyvinyl Chloride | 0.185 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 µH/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 |

**Voltage**

| UL Voltage Rating |
| --- |
| 300 V RMS |

## Temperature Range

| | |
| --- | --- |
| UL Temp Rating: | 60°C |
| Operating Temp Range: | -30°C To +60°C |

## Mechanical Characteristics

| | |
| --- | --- |
| UV Resistance: | No |
| Bulk Cable Weight: | 16 lbs/1000ft |
| Max Recommended Pulling Tension: | 16.5 lbs |
| Min Bend Radius/Minor Axis: | 2 in |

## Standards

| | |
|---|---|
| NEC/(UL) Specification: | CMR |
| CEC/C(UL) Specification: | CMR |
| 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): | 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 |
| Suitability - Sunlight Resistance: | No |

## Flammability, LS0H, Toxicity Testing

| | |
|---|---|
| UL voltage rating: | 300 V RMS |

## Plenum/Non-Plenum

| | |
|---|---|
| Plenum (Y/N): | No |
| Plenum Number: | 1801B |

## Part Number

**Variants**

| Item # | Color | Footnote |
|---|---|---|
| 1800B T5X5000 | Gray | |
| 1800B T5X5000 | Gray | |
| 1800B T5X1000 | Gray T5X | C |
| 1800B T5X500 | Gray T5X | C |
| 1800B T5XU1000 | Gray T5X | |
| 1800B 0071000 | Violet | C |
| 1800B 007U1000 | Violet | |
| 1800B 0075000 | Violet | |
| 1800B 0075000 | Violet | |

| | |
|---|---|
| Footnote: | C - CRATE REEL PUT-UP. |

## Product Notes

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

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