



Product: [1803F](#)

Audio Snake Cable, #24-4pr, TC, Indiv. Shielded, CMG

Product Description

Digital Audio Snake Cable, CMG-Rated, 4-24 AWG tinned copper pairs, Datalene® insulation, individually shielded with Beldfoil, numbered/color-coded PVC jackets, flexible PVC jacket

Technical Specifications

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material           | Nominal Diameter | No. of Pairs |
|-----|-----------|--------------------|------------------|--------------|
| 24  | 7x32      | TC - Tinned Copper | 0.024 in         | 4            |

|                        |   |
|------------------------|---|
| Conductor Count:       | 8 |
| Total Number of Pairs: | 4 |

Insulation

| Material                 | Material Trade Name | Nominal Diameter |
|--------------------------|---------------------|------------------|
| PE - Polyethylene (Foam) | Datalene®           | 0.068 in         |

Color Chart

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

Inner Shield

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

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

Inner Jacket

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.167 in         |

Outer Shield

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

Outer Jacket

| Material                 | Nominal Diameter | Ripcord |
|--------------------------|------------------|---------|
| PVC - Polyvinyl Chloride | 0.488 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                                                |

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 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 Temp Range: | -30°C To +60°C |

Mechanical Characteristics

|                              |                |
|------------------------------|----------------|
| UV Resistance:               | No             |
| Bulk Cable Weight:           | 100 lbs/1000ft |
| Max. Pull Tension:           | 82.5 lbs       |
| Min. Bend Radius/Minor Axis: | 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 2003/96/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

|                     |                    |
|---------------------|--------------------|
| C(UL) Flammability: | FT4                |
| UL Flammability:    | UL1685 FT4 Loading |
| IEC Flammability:   | IEC 60332-1-2      |
| UL voltage rating:  | 300 V RMS          |

Plenum/Non-Plenum

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

Part Number

Variants

| Item #        | Color        | Put-Up Type | Length   | UPC          |
|---------------|--------------|-------------|----------|--------------|
| 1803F B591000 | Black, Matte | Reel        | 1,000 ft | 612825123101 |
| 1803F Z4B5000 | Violet       | Reel        | 5,000 ft | 612825431213 |
| 1803F Z4B500  | Violet Z4B   | Reel        | 500 ft   | 612825123125 |
| 1803F Z4B1000 | Violet Z4B   | Reel        | 1,000 ft | 612825123118 |

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

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. |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.392 Revision Date: 09-24-2021 |
|----------------------|--------------------------------------------------|

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