

## 1800B Multi-Conductor - Single-Pair Cable



For more Information  
please call

1-800-Belden1

**General Description:**

24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, twisted pairs, overall Beldfoil® shield (100% coverage), 24 AWG drain wire, PVC jacket.

**Physical Characteristics (Overall)****Conductor**

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 1       | 24  | 7x32      | TC - Tinned Copper | .024       |

Total Number of Conductors: 2

**Insulation**

Insulation Material:

| Insulation Trade Name | Insulation Material                    | Dia. (in.) |
|-----------------------|----------------------------------------|------------|
| Datalene®             | FHDPE - Foam High Density Polyethylene | .068       |

**Outer Shield**

Outer Shield Material:

| Outer Shield Trade Name | Type | Outer Shield Material        | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil®               | Tape | Aluminum Foil-Polyester Tape | 100          |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 24  | 7x32      | TC - Tinned Copper            |

**Outer Jacket**

Outer Jacket Material:

| Outer Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

**Overall Cable**

Overall Nominal Diameter: 0.177 in.

**Pair**

Pair Color Code Chart:

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

**Mechanical Characteristics (Overall)**

|                                   |                 |
|-----------------------------------|-----------------|
| Operating Temperature Range:      | -30°C To +60°C  |
| UL Temperature Rating:            | 60°C            |
| Bulk Cable Weight:                | 16 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 16.500 lbs.     |
| Min. Bend Radius/Minor Axis:      | 1.750 in.       |

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification:               | CMR        |
| CEC/(UL) Specification:               | CMR        |
| EU Directive 2011/65/EU (RoHS II):    | Yes        |
| EU CE Mark:                           | Yes        |
| EU Directive 2000/53/EC (ELV):        | Yes        |
| EU Directive 2002/95/EC (RoHS):       | Yes        |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004 |
| EU Directive 2002/96/EC (WEEE):       | Yes        |

## 1800B Multi-Conductor - Single-Pair Cable

|                                   |         |
|-----------------------------------|---------|
| EU Directive 2003/11/EC (BFR):    | Yes     |
| CA Prop 65 (CJ for Wire & Cable): | Yes     |
| MIL Order #39 (China RoHS):       | Yes     |
| Other Specification:              | AES/EBU |

## Flame Test

|                 |                       |
|-----------------|-----------------------|
| UL Flame Test:  | UL1666 Vertical Shaft |
| CSA Flame Test: | FT4                   |

## Plenum/Non-Plenum

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

## Electrical Characteristics (Overall)

## Nom. Characteristic Impedance:

| Impedance (Ohm) |
|-----------------|
| 110             |

## Nom. Inductance:

| Inductance (μH/ft) |
|--------------------|
| .18                |

## Nom. Capacitance Conductor to Conductor:

| Capacitance (pF/ft) |
|---------------------|
| 12                  |

## Nom. Capacitance Cond. to Other Conductor &amp; Shield:

| Capacitance (pF/ft) |
|---------------------|
| 26                  |

## Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 76     |

## Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 23.7                     |

## Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 0.384       | 0.290                    |
| 0.706       | 0.710                    |
| 0.768       | 0.770                    |
| 1.024       | 0.940                    |
| 1.411       | 1.100                    |
| 1.536       | 1.100                    |
| 2.048       | 1.300                    |
| 2.822       | 1.400                    |
| 3.072       | 1.400                    |
| 4.096       | 1.500                    |
| 5.645       | 1.700                    |
| 6.144       | 1.800                    |
| 8.192       | 2.000                    |
| 11.290      | 2.200                    |
| 12.288      | 2.300                    |
| 24.576      | 3.100                    |

## Max. Operating Voltage - UL:

| Voltage   |
|-----------|
| 300 V RMS |

## Max. Recommended Current:

| Current                        |
|--------------------------------|
| 2.75 Amps per conductor @ 25°C |

## Notes (Overall)

**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.

## Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------|-------|-------------|-------|-------|-----------|
|--------|-------|-------------|-------|-------|-----------|

## 1800B Multi-Conductor - Single-Pair Cable

|                |          |           |          |   |                     |
|----------------|----------|-----------|----------|---|---------------------|
| 1800B T5XU1000 | 1,000 FT | 17.000 LB | GRAY T5X |   | #24 FHDPE FS PR PVC |
| 1800B T5X1000  | 1,000 FT | 18.000 LB | GRAY T5X | C | #24 FHDPE FS PR PVC |
| 1800B T5X500   | 500 FT   | 9.500 LB  | GRAY T5X | C | #24 FHDPE FS PR PVC |
| 1800B 007U1000 | 1,000 FT | 17.000 LB | VIOLET   |   | #24 FHDPE FS PR PVC |
| 1800B 0071000  | 1,000 FT | 18.000 LB | VIOLET   | C | #24 FHDPE FS PR PVC |

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 3    Revision Date: 03-17-2014

© 2014 Belden, Inc.  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9