

## 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/C(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        |

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|                                   |         |
|-----------------------------------|---------|
| EU Directive 2003/11/EC (BFR):    | Yes     |
| CA Prop 65 (CJ for Wire & Cable): | Yes     |
| MII 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 & 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.

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#### Как с нами связаться

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