



Description:

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

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 2 | 24 | 7x32 | TC - Tinned Copper | .024 |

Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material |
|-----------------------|--|
| Datalene® | FHDPE - Foam High Density Polyethylene |

Inner Shield

Inner Shield Material:

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

Inner Shield Drain Wire AWG:

| AWG |
|-----|
| 24 |

Inner Shield Drain Wire Stranding: 7x32

Inner Shield Drain Wire Diameter: .024

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

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

Overall Cabling

Overall Nominal Diameter: 0.180 x 0.360 in.

Pair

Pair Color Code Chart:

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

Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +60°C

UL Temperature Rating: 60°C

Bulk Cable Weight: 31.300 lbs/1000 ft.

Max. Recommended Pulling Tension: 33 lbs.

Min. Bend Radius (Install)/Minor Axis: 2 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|------------|
| NEC/(UL) Specification: | CMG |
| CEC/C(UL) Specification: | CMG |
| 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 |
| 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

| | |
|-------------------|-----|
| C(UL) Flame Test: | FT4 |
|-------------------|-----|

Plenum/Non-Plenum

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

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.) |
|-------------|--------------------------|
| .384 | .69 |
| .7056 | .93 |
| .768 | .96 |
| 1.024 | 1.07 |
| 1.4112 | 1.19 |
| 1.536 | 1.21 |
| 2.048 | 1.31 |
| 2.8224 | 1.41 |
| 3.072 | 1.45 |
| 4.096 | 1.57 |
| 5.6448 | 1.76 |

1802B Multi-Conductor - Double-Pair Cable

| | |
|---------|------|
| 6.144 | 1.83 |
| 8.192 | 2.01 |
| 11.2896 | 2.24 |
| 12.288 | 2.30 |
| 24.576 | 3.08 |

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 on automatic stripping equipment.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|----------|-------------|---------|-------|----------------------------|
| 1802B Z4BU1000 | 1,000 FT | 35.000 LB | VIO Z4B | | 2 #24 FHDPE PR FS PVC PARA |
| 1802B Z4B1000 | 1,000 FT | 37.000 LB | VIO Z4B | C | 2 #24 FHDPE PR FS PVC PARA |
| 1802B Z4B500 | 500 FT | 16.500 LB | VIO Z4B | C | 2 #24 FHDPE PR FS PVC PARA |

Notes:

C = CRATE REEL PUT-UP.

AES/EBU Digital Audio Cable

Single- and Double-Pair Cables



19 • Brilliance® Broadcast

| Description | Part No. | UL NEC/ C(UL) CEC Type | No. of Pairs | Color Code | Standard Lengths | | Standard Unit Weight | | Nom. DCR | | Nominal OD | | Nom. Imp. (Ω) | Nom. Vel. of Prop. | Nom. Capacitance | | | |
|-------------|----------|------------------------|--------------|------------|------------------|---|----------------------|----|----------|--------|------------|----|---------------|--------------------|------------------|---------|------------|----------|
| | | | | | Ft. | m | Lbs. | kg | Cond. | Shield | Inch | mm | | | * pF/ Ft. | * pF/ m | ** pF/ Ft. | ** pF/ m |

110 Ohm • 26 AWG Stranded (7x34) .018" TC Conductors • Twisted Pair • Beldfoil® Shield (100% Coverage) • 26 AWG Stranded TC Drain Wire
Datalene® Insulation • Chrome or Purple PVC Jacket

| | | | | | | | | | | | | | | | | | | |
|---|-------------|--------------------------|---|--------------|------|-------|------|-----|----------|----------|------|------|-----|-----|----|----|----|----|
| 2-Conductor Digital Video Time Code Cable 75°C | 9180 | NEC: CMR CEC: CMG FT4 | 1 | Black, White | 1000 | 304.8 | 10.0 | 4.5 | 37.3Ω/M' | 23.1Ω/M' | .144 | 3.66 | 110 | 76% | 13 | 43 | 26 | 85 |
|---|-------------|--------------------------|---|--------------|------|-------|------|-----|----------|----------|------|------|-----|-----|----|----|----|----|



Shorting Fold

For cross-connect use with 7891A (et al.) Digital Audio Snake Cables, see page 19.28.

24 AWG Stranded (7x32) Tinned Copper Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Drain Wire
Datalene Insulation • Gray or Purple PVC Jacket

| | | | | | | | | | | | | | | | | | | |
|------|--------------|--------------------------|---|------------|--------|---------|------|------|----------|----------|------|------|-----|-----|----|----|----|----|
| 60°C | 1800B | NEC: CMR CEC: CMG FT4 | 1 | Black, Red | 500* | 152.4 | 8.0 | 3.6 | 23.7Ω/M' | 18.9Ω/M' | .177 | 4.57 | 110 | 76% | 12 | 39 | 26 | 85 |
| | | | | | U-1000 | U-304.8 | 17.0 | 7.7 | 77.7Ω/km | 62.0Ω/km | | | | | | | | |
| | | | | | 1000 | 304.8 | 16.0 | 7.3 | | | | | | | | | | |
| | | | | | 5000* | 1524.0 | 90.0 | 40.8 | | | | | | | | | | |



For cross-connect use with 1803F (et al.) Digital Audio Snake Cables, see page 19.28.
 For Plenum version of 1800B, see 1801B.

*500 ft. put-up available in Gray only. 5000 ft. put-up available in Purple only.
 The jacket and shield are bonded so both can be removed with automatic stripping equipment.

24 AWG Stranded (42x40) HC BC Conductors • Conductors Cabled with Fillers • TC "French Braid" Shield (95% Coverage) • BC Drain Wire
Datalene Insulation • Matte PVC Jacket (Available in Red, Yellow, Green, Blue, Gray or Black)

| | | | | | | | | | | | | | | | | | | |
|-------------------------------------|--------------|-----------|---|------------|--------|---------|------|------|----------|----------|------|------|-----|-----|----|----|----|----|
| Digital Mic Cable High-Flex 60°C | 1800F | NEC: CL2R | 1 | Black, Red | 500* | 152.4 | 12.0 | 5.5 | 23.7Ω/M' | 5.0Ω/M' | .211 | 5.36 | 110 | 76% | 12 | 39 | 26 | 85 |
| | | | | | U-1000 | U-304.8 | 26.0 | 11.8 | 77.7Ω/km | 16.4Ω/km | | | | | | | | |
| | | | | | 1000* | 304.8 | 24.0 | 10.9 | | | | | | | | | | |



French Braid

*500 ft. and 1000 ft. put-ups available in Black only.

24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG TC Drain Wire
Plenum • Foam FEP Teflon® Insulation • Flam arrest® Jacket (Available in Natural White or Purple)

| | | | | | | | | | | | | | | | | | | |
|-------------------|--------------|--------------------------|---|------------|--------|---------|------|-----|----------|----------|------|------|-----|-----|----|----|----|----|
| 75°C, Non-conduit | 1801B | NEC: CMP CEC: CMP FT6 | 1 | Black, Red | 500 | 152.4 | 6.0 | 2.7 | 23.7Ω/M' | 18.9Ω/M' | .165 | 4.19 | 110 | 78% | 12 | 39 | 26 | 85 |
| | | | | | U-1000 | U-304.8 | 14.0 | 6.4 | 77.7Ω/km | 62.0Ω/km | | | | | | | | |
| | | | | | 1000 | 304.8 | 12.0 | 5.5 | | | | | | | | | | |



24 AWG Stranded (7x32) TC Conductors • Dual Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG TC Drain Wire
Datalene Insulation • Purple PVC Jacket in Zip-Cord Construction

| | | | | | | | | | | | | | | | | | | |
|------|--------------|--------------------------|---|------------|--------|---------|------|------|----------|----------|------|------|-----|-----|----|----|----|----|
| 60°C | 1802B | NEC: CMR CEC: CMG FT4 | 2 | Black, Red | 500 | 152.4 | 16.5 | 7.5 | 23.7Ω/M' | 18.9Ω/M' | .180 | 4.57 | 110 | 76% | 12 | 39 | 26 | 85 |
| | | | | | U-1000 | U-304.8 | 35.0 | 15.9 | 77.7Ω/km | 62.0Ω/km | x | x | | | | | | |
| | | | | | 1000 | 304.8 | 37.0 | 16.8 | | | .360 | 9.14 | | | | | | |



The jacket and shield are bonded so both can be removed with automatic stripping equipment.

22 AWG Stranded (7x30) TC Conductors • Twisted Pair with Fillers • Overall Beldfoil + TC Braid Shield (90% Coverage) • 24 AWG Drain Wire
Datalene Insulation • Black High-Flex Matte PVC Jacket

| | | | | | | | | | | | | | | | | | | |
|-------------------------------|--------------|---|---|-------------|--------|---------|------|------|----------|----------|------|------|-----|-----|----|----|----|----|
| DMX512 Type High-Flex 60°C | 1696A | — | 1 | Blue, White | 250 | 76.2 | 8.0 | 3.6 | 17.8Ω/M' | 4.6Ω/M' | .234 | 5.94 | 110 | 76% | 13 | 43 | 26 | 85 |
| | | | | | 500 | 152.4 | 14.5 | 6.6 | 48.5Ω/km | 15.2Ω/km | | | | | | | | |
| | | | | | U-1000 | U-304.8 | 30.0 | 13.6 | | | | | | | | | | |
| | | | | | 1000 | 304.8 | 32.0 | 14.5 | | | | | | | | | | |



Z-Fold®

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HC = High-conductivity • TC = Tinned Copper

*Capacitance between conductors.

**Capacitance between one conductor and other conductors connected to shield.

Teflon is a DuPont trademark.