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1-800-Belden1



## General 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. (mm)
2	24	7x32	TC - Tinned Copper	0.6096

Total Number of Conductors: 4

### 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 Cable

Overall Nominal Diameter: 4.572 x 9.144 mm

### 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: 49.111 Kg/Km

Max. Recommended Pulling Tension: 146.791 N

Min. Bend Radius/Minor Axis: 50.800 mm

## 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

## METRIC MEASUREMENT VERSION

## 1802B Multi-Conductor - Double-Pair Cable

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

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

### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

**Impedance (Ohm)**  
110

### Nom. Inductance:

**Inductance (µH/m)**  
0.59058

### Nom. Capacitance Conductor to Conductor:

**Capacitance (pF/m)**  
39.372

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

**Capacitance (pF/m)**  
85.306

### Nominal Velocity of Propagation:

**VP (%)**  
76

### Nom. Conductor DC Resistance:

**DCR @ 20°C (Ohm/km)**  
77.7597

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
0.384	0.951
0.706	2.330
0.768	2.526
1.024	3.084
1.411	3.609
1.536	3.609
2.048	4.265
2.822	4.593
3.072	4.593
4.096	4.922
5.645	5.578
6.144	5.906
8.192	6.562
11.290	7.218
12.288	7.546
24.576	10.171

### 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 Z4BN1000	1,000 FT	37.000 LB	VIO Z4B		2 #24 FHDPE PR FS PVC PARA
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	18.500 LB	VIO Z4B	C	2 #24 FHDPE PR FS PVC PARA
1802B 010N1000	1,000 FT	37.000 LB	BLACK		2 #24 FHDPE PR FS PVC PARA

**Notes:**  
C = CRATE REEL PUT-UP.

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