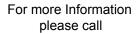
## **Detailed Specifications & Technical Data**



ENGLISH MEASUREMENT VERSION

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



1-800-Belden1



## **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	
Total Number of Conductors:	4
Insulation Insulation Material:	
Insulation Trade Name Insulation Material	
Datalene® FHDPE - Foam High Density Pol	yethylene
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 Material: Outer Jacket Material Outer Jacket Material PVC - Polyvinyl Chloride Overall Cable	
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

Operating Temperature Range:	-30°C To +60°C
UL Temperature Rating:	60°C
Bulk Cable Weight:	33 lbs/1000 ft.
Max. Recommended Pulling Tension:	33 lbs.

# **Detailed Specifications & Technical Data**



## ENGLISH MEASUREMENT VERSION

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

Min. Bend Radius/Minor Axis:	2 in.
Applicable Specifications and Agency Co	ompliance (Overall)
Applicable Standards & Environmental Progr	rams
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 (μΗ/ft) .18	
Nom. Capacitance Conductor to Conductor:	
Capacitance (pF/ft) 12	
Nom. Capacitance Cond. to Other Conductor & Sh	iield:
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			

## **Detailed Specifications & Technical Data**



### ENGLISH MEASUREMENT VERSION

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

5.6448	1.76
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	С	2 #24 FHDPE PR FS PVC PARA
1802B Z4B500	500 FT	16.500 LB	VIO Z4B	С	2 #24 FHDPE PR FS PVC PARA

Notes:

C = CRATE REEL PUT-UP.

**Revision Number: 1** Revision Date: 05-14-2007

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