

## 9180 Multi-Conductor - Single-Pair Cable

For more Information  
please call

1-800-Belden1



### Description:

110 Ohm, 26 AWG stranded (7x34) .018" TC conductors, Datalene® insulation, twisted pair, Beldfoil® shield (100% coverage), 26 AWG stranded TC drain wire, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	26	7x34	TC - Tinned Copper	.019

#### Insulation

##### Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Datalene®	FHDPE - Foam High Density Polyethylene	.049

#### Outer Shield

##### Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape w/Shorting Fold	100

##### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
26	7x34	TC - Tinned Copper

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 0.144 in.

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Black & White

##### Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
1.500	8.000

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +75°C
Non-UL Temperature Rating:	75°C
Bulk Cable Weight:	10 lbs/1000 ft.
Max. Recommended Pulling Tension:	10.500 lbs.
Min. Bend Radius (Install)/Minor Axis:	2 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
EU CE Mark:	No
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:	UL1685 FT4 Loading
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/ft)

.23

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

13.0

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

Capacitance (pF/ft)

26

### Nominal Velocity of Propagation:

VP (%)

76

### Nominal Delay:

Delay (ns/ft)

1.34

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

37.3

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

23.1

### Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.)

.38 0.84

.77 1.18

1.0	1.34
1.5	1.54
2.0	1.69
3.1	1.92
4.1	2.14
5.6	2.40
8.2	2.75
11.3	3.09
12.3	3.18
24.6	4.20

**Max. Operating Voltage - UL:**

<b>Voltage</b>
300 V RMS

**Max. Recommended Current:**

<b>Current</b>
1.9 Amps per conductor @ 25°C

**Notes (Overall)**

**Notes:** For cross-connect use with 7891A (et al.) Digital Audio Snake Cables.

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9180 Z4B1000	1,000 FT	12.000 LB	VIO Z4B		2 #26 FHDPE FS FRPVC
9180 0601000	1,000 FT	12.000 LB	CHROME	C	2 #26 FHDPE FS FRPVC

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

Revision Number: 1    Revision Date: 04-21-2009

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