

## 9180 Multi-Conductor - Single-Pair Cable

For more Information  
please call

1-800-Belden1



### General 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

Total Number of Conductors: 2

#### 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

### 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/Minor Axis: 1.500 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification:	CMG
EU Directive 2011/65/EU (ROHS II):	Yes
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.

### 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.

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