

## 1800F Multi-Conductor - Single-Pair Cable



For more Information  
please call

1-800-Belden1



### General Description:

24 AWG stranded (42x40) HC BC conductors, Datalene® insulation, conductors cabled with fillers, TC "French Braid" Shield (95% coverage), BC drain wire, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	24	42x40	BC - Bare Copper	.024

Total Number of Conductors: 2

#### Insulation

##### Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Datalene®	FHDPE - Foam High Density Polyethylene	.058

#### Outer Shield

##### Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
French Braid	TC - Tinned Copper	95

##### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
26	Stranded	BC - Bare Copper

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 0.211 in.

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Red & Black

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +60°C
Non-UL Temperature Rating:	60°C
Bulk Cable Weight:	24 lbs/1000 ft.
Max. Recommended Pulling Tension:	41.500 lbs.
Min. Bend Radius/Minor Axis:	2.250 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CL2R
EU Directive 2011/65/EU (ROHS II):	Yes
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
MIL Order #39 (China RoHS):	Yes
Other Specification:	AES/EBU Digital Audio

**Flame Test**

UL Flame Test:	UL1666 Riser
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**Plenum/Non-Plenum**

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

**Nom. Characteristic Impedance:**

<b>Impedance (Ohm)</b>
110

**Nom. Inductance:**

<b>Inductance (µH/ft)</b>
0.18

**Nom. Capacitance Conductor to Conductor:**

<b>Capacitance (pF/ft)</b>
12

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

<b>Capacitance (pF/ft)</b>
26

**Nominal Velocity of Propagation:**

<b>VP (%)</b>
76

**Nom. Conductor DC Resistance:**

<b>DCR @ 20°C (Ohm/1000 ft)</b>
23.7

**Nominal Outer Shield DC Resistance:**

<b>DCR @ 20°C (Ohm/1000 ft)</b>
6.42

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
0.384	0.260
0.706	0.480
0.768	0.530
1.024	0.680
1.411	0.890
1.536	0.950
2.048	1.200
2.822	1.500
3.072	1.600
4.096	2.100
5.645	2.800
6.144	3.000
8.192	3.600
11.290	4.500
12.288	4.700
24.576	7.100

**Max. Operating Voltage - UL:**

<b>Voltage</b>
300 V RMS

**Max. Recommended Current:**

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

**Notes (Overall)**

**Notes:** Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1800F B59U1000	1,000 FT	25.000 LB	BLACK, MATTE		#24 PR FHDPE BRD PVC

## ENGLISH MEASUREMENT VERSION

## 1800F Multi-Conductor - Single-Pair Cable

1800F B591000	1,000 FT	25.000 LB	BLACK, MATTE	C	#24 PR FHDPE BRD PVC
1800F B59500	500 FT	13.000 LB	BLACK, MATTE	C	#24 PR FHDPE BRD PVC
1800F G7VU1000	1,000 FT	25.000 LB	RED, MATTE		#24 PR FHDPE BRD PVC
1800F G7WU1000	1,000 FT	25.000 LB	GREEN, MATTE		#24 PR FHDPE BRD PVC
1800F G7XU1000	1,000 FT	25.000 LB	BLUE, MATTE		#24 PR FHDPE BRD PVC
1800F G8MU1000	1,000 FT	25.000 LB	YELLOW, MATTE		#24 PR FHDPE BRD PVC
1800F U90U1000	1,000 FT	25.000 LB	GRAY, MATTE		#24 PR FHDPE BRD PVC
1800F Z4BU1000	1,000 FT	25.000 LB	VIO Z4B		#24 PR FHDPE BRD PVC

**Notes:**

C = CRATE REEL PUT-UP.

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