

## 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

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

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
----------------	--------------

### Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)
110

### Nom. Inductance:

Inductance (µH/ft)
0.18

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
12

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

Capacitance (pF/ft)
26

### Nominal Velocity of Propagation:

VP (%)
76

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
23.7

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
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:

Voltage
300 V RMS

### Max. Recommended Current:

Current
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.

Revision Number: 2    Revision Date: 03-17-2014

© 2014 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.