

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. (mm)
1	24	42x40	BC - Bare Copper	0.6096

Total Number of Conductors: 2

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (mm)
Datalene®	FHDPE - Foam High Density Polyethylene	1.4732

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: 5.359 mm

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: 35.717 Kg/Km

Max. Recommended Pulling Tension: 184.600 N

Min. Bend Radius/Minor Axis: 57.150 mm

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
MII 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:

Impedance (Ohm)

110

Nom. Inductance:

Inductance (µH/m)

0.59058

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

39.372

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

85.306

Nominal Velocity of Propagation:

VP (%)

76

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

77.7597

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

21.064

Nom. Attenuation:

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

.384	1.50926
.706	2.19827
.768	2.2967
1.024	2.72323
1.411	3.41224
1.536	3.57629
2.048	4.2653
2.822	5.44646
3.072	5.74175
4.096	7.31663
5.645	9.48209
6.144	10.0727

METRIC MEASUREMENT VERSION

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8.192	12.1725
11.290	14.8629
12.288	15.6832
24.576	23.3279

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	305 MT	11.793 KG	BLACK, MATTE		#24 PR FHDPE BRD PVC
1800F B59I1000	305 MT	11.793 KG	BLACK, MATTE	C	#24 PR FHDPE BRD PVC
1800F B59500	152 MT	6.124 KG	BLACK, MATTE	C	#24 PR FHDPE BRD PVC
1800F G7VU1000	305 MT	11.793 KG	RED, MATTE		#24 PR FHDPE BRD PVC
1800F G7WU1000	305 MT	11.793 KG	GREEN, MATTE		#24 PR FHDPE BRD PVC
1800F G7XU1000	305 MT	11.793 KG	BLUE, MATTE		#24 PR FHDPE BRD PVC
1800F G8MU1000	305 MT	11.793 KG	YELLOW, MATTE		#24 PR FHDPE BRD PVC
1800F U90U1000	305 MT	11.793 KG	GRAY, MATTE		#24 PR FHDPE BRD PVC
1800F Z4BU1000	305 MT	11.793 KG	VIO Z4B		#24 PR FHDPE BRD PVC

Notes:

C = CRATE REEL PUT-UP.

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