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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
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:

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)
0.384	0.853
0.706	1.575
0.768	1.739
1.024	2.231
1.411	2.920
1.536	3.117
2.048	3.937
2.822	4.922
3.072	5.250
4.096	6.890
5.645	9.187
6.144	9.843
8.192	11.812
11.290	14.765
12.288	15.421
24.576	23.295

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

METRIC 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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