

**Description:**

24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, twisted pairs, overall Beldfoil® shield (100% coverage), 24 AWG drain wire, PVC jacket.

Physical Characteristics (Overall)**Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	24	7x32	TC - Tinned Copper	.024

Insulation**Insulation Material:**

Insulation Trade Name	Insulation Material	Dia. (in.)
Datalene®	FHDPE - Foam High Density Polyethylene	.068

Outer Shield**Outer Shield Material:**

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
24	7x32	TC - Tinned Copper

Outer Jacket**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cabling

Overall Nominal Diameter: 0.177 in.

Pair**Pair Color Code Chart:**

Number	Color
1	Red & Black

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +60°C
UL Temperature Rating:	60°C
Bulk Cable Weight:	18.300 lbs/1000 ft.
Max. Recommended Pulling Tension:	16.500 lbs.
Min. Bend Radius (Install)/Minor Axis:	1.750 in.

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG

1800B Multi-Conductor - Single-Pair Cable

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

Flame Test

C(UL) Flame Test:	FT4
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Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	1801B

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
110

Nom. Inductance:

Inductance (μH/ft)
.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

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
.384	.69
.7056	.93
.768	.96
1.024	1.07
1.4112	1.19
1.536	1.21
2.048	1.31
2.8224	1.41
3.072	1.45
4.096	1.57
5.6448	1.76
6.144	1.83
8.192	2.01
11.2896	2.24
12.288	2.30
24.576	3.08

1800B Multi-Conductor - Single-Pair Cable**Max. Operating Voltage - UL:****Voltage**

300 V RMS

Max. Recommended Current:**Current**

2.75 Amps per conductor @ 25°C

Notes (Overall)

Notes: For cross-connect use with 1803F (et al.) Digital Audio Snake Cables. The jacket and shield are bonded so both can be removed with automatic stripping equipment.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1800B T5XU1000	1,000 FT	17.000 LB	GRAY T5X		#24 FHDPE FS PR PVC
1800B T5X1000	1,000 FT	16.000 LB	GRAY T5X	C	#24 FHDPE FS PR PVC
1800B T5X500	500 FT	8.000 LB	GRAY T5X	C	#24 FHDPE FS PR PVC
1800B 007U1000	1,000 FT	17.000 LB	VIOLET		#24 FHDPE FS PR PVC
1800B 0071000	1,000 FT	16.000 LB	VIOLET	C	#24 FHDPE FS PR PVC

Notes:

C = CRATE REEL PUT-UP.

AES/EBU Digital Audio Cable

Single- and Double-Pair Cables



Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

110 Ohm • 26 AWG Stranded (7x34) .018" TC Conductors • Twisted Pair • Beldfoil® Shield (100% Coverage) • 26 AWG Stranded TC Drain Wire

Datalene® Insulation • Chrome or Purple PVC Jacket

2-Conductor Digital
Video Time Code Cable
75°C

9180

NEC:
CMR
CEC:
CMG FT4

1 Black,
White

1000 304.8 10.0 4.5

37.3Ω/M' 23.1Ω/M'
122.3Ω/km 75.8Ω/km

.144 3.66

110 76%

13 43

26 85



Shorting Fold

For cross-connect use with 7891A (et al.)
Digital Audio Snake Cables, see page 19.28.

24 AWG Stranded (7x32) Tinned Copper Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Drain Wire

Datalene Insulation • Gray or Purple PVC Jacket

60°C

1800B

NEC:
CMG
CEC:
CMG FT4

1 Black,
Red

500* 152.4 8.0 3.6
U-1000 U-304.8 17.0 7.7
1000 304.8 16.0 7.3
5000* 1524.0 90.0 40.8

23.7Ω/M' 18.9Ω/M'
77.7Ω/km 62.0Ω/km

.177 4.57

110 76%

12 39

26 85



For cross-connect use with 1803F (et al.)
Digital Audio Snake Cables, see page 19.28.
For Plenum version of 1800B, see 1801B.

*500 ft. put-up available in Gray only. 5000 ft. put-up available in Purple only.
The jacket and shield are bonded so both can be removed with automatic stripping equipment.

24 AWG Stranded (42x40) HC BC Conductors • Conductors Cabled with Fillers • TC "French Braid" Shield (95% Coverage) • BC Drain Wire

Datalene Insulation • Matte PVC Jacket (Available in Red, Yellow, Green, Blue, Gray or Black)

Digital Mic Cable
High-Flex
60°C

1800F

NEC:
CL2R

1 Black,
Red

500▲ 152.4 12.0 5.5
U-1000 U-304.8 26.0 11.8
1000▲ 304.8 24.0 10.9

23.7Ω/M' 5.0Ω/M'
77.7Ω/km 16.4Ω/km

.211 5.36

110 76%

12 39

26 85



French Braid

*500 ft. and 1000 ft. put-ups available in Black only.

24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG TC Drain Wire

Plenum • Foam FEP Teflon® Insulation • Flam arrest® Jacket (Available in Natural White or Purple)

75°C, Non-conduit

1801B

NEC:
CMP
CEC:
CMP FT6

1 Black,
Red

500 152.4 6.0 2.7
U-1000 U-304.8 14.0 6.4
1000 304.8 12.0 5.5

23.7Ω/M' 18.9Ω/M'
77.7Ω/km 62.0Ω/km

.165 4.19

110 78%

12 39

26 85



24 AWG Stranded (7x32) TC Conductors • Dual Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG TC Drain Wire

Datalene Insulation • Purple PVC Jacket in Zip-Cord Construction

60°C

1802B

NEC:
CMG
CEC:
CMG FT4

2 Black,
Red

500 152.4 16.5 7.5
U-1000 U-304.8 35.0 15.9
1000 304.8 37.0 16.8

23.7Ω/M' 18.9Ω/M'
77.7Ω/km 62.0Ω/km

.180 4.57

110 76%

12 39

26 85



The jacket and shield are bonded so both can be removed with automatic stripping equipment.

22 AWG Stranded (7x30) TC Conductors • Twisted Pair with Fillers • Overall Beldfoil + TC Braid Shield (90% Coverage) • 24 AWG Drain Wire

Datalene Insulation • Black High-Flex Matte PVC Jacket

DMX512 Type
High-Flex
60°C

1696A

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1 Blue,
White

250 76.2 8.0 3.6
500 152.4 14.5 6.6
U-1000 U-304.8 30.0 13.6
1000 304.8 32.0 14.5

17.8Ω/M' 4.6Ω/M'
48.5Ω/km 15.2Ω/km

.234 5.94

110 76%

13 43

26 85



Z-Fold®

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HC = High-conductivity • TC = Tinned Copper

*Capacitance between conductors.

**Capacitance between one conductor and other conductors connected to shield.

Teflon is a DuPont trademark.

BELDEN