



Description:

110 Ohm, 26 AWG stranded (7x34) .018" TC conductors, Datalene® insulation, twisted pair, Beldfoil® shield (100% coverage), 26 AWG stranded TC drain wire, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	26	7x34	TC - Tinned Copper	.019

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Datalene®	FHDPE - Foam High Density Polyethylene	.049

Outer Shield

Outer Shield Material:

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

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
26	7x34	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cabling

Overall Nominal Diameter: 0.144 in.

Pair

Pair Color Code Chart:

Number	Color
1	Black & White

Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
1.500	8.000

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +75°C
Non-UL Temperature Rating:	75°C
Bulk Cable Weight:	9.400 lbs/1000 ft.
Max. Recommended Pulling Tension:	10.500 lbs.
Min. Bend Radius (Install)/Minor Axis:	2 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
EU CE Mark:	No
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

UL Flame Test:	UL1685 FT4 Loading
CSA Flame Test:	FT4

Plenum/Non-Plenum

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

Nom. Characteristic Impedance:

Impedance (Ohm)

110

Nom. Inductance:

Inductance (µH/ft)

.23

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

13.0

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

26

Nominal Velocity of Propagation:

VP (%)

76

Nominal Delay:

Delay (ns/ft)

1.34

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

37.3

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

23.1

Nom. Attenuation:

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

.38 0.84

.77 1.18

1.0	1.34
1.5	1.54
2.0	1.69
3.1	1.92
4.1	2.14
5.6	2.40
8.2	2.75
11.3	3.09
12.3	3.18
24.6	4.20

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

Current
1.9 Amps per conductor @ 25°C

Notes (Overall)

Notes: For cross-connect use with 7891A (et al.) Digital Audio Snake Cables.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9180 Z4B1000	1,000 FT	10.000 LB	VIO Z4B		2 #26 FHDPE FS FRPVC
9180 0601000	1,000 FT	10.000 LB	CHROME	C	2 #26 FHDPE FS FRPVC

Notes:
C = CRATE REEL PUT-UP.

AES/EBU Digital Audio Cable

Single- and Double-Pair Cables



19 • Brilliance® Broadcast

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'	.144	3.66	110	76%	13	43	26	85
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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: CMR CEC: CMG FT4	1	Black, Red	500*	152.4	8.0	3.6	23.7Ω/M'	18.9Ω/M'	.177	4.57	110	76%	12	39	26	85
					U-1000	U-304.8	17.0	7.7	77.7Ω/km	62.0Ω/km								
					1000	304.8	16.0	7.3										
					5000*	1524.0	90.0	40.8										



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	23.7Ω/M'	5.0Ω/M'	.211	5.36	110	76%	12	39	26	85
					U-1000	U-304.8	26.0	11.8	77.7Ω/km	16.4Ω/km								
					1000*	304.8	24.0	10.9										



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	23.7Ω/M'	18.9Ω/M'	.165	4.19	110	78%	12	39	26	85
					U-1000	U-304.8	14.0	6.4	77.7Ω/km	62.0Ω/km								
					1000	304.8	12.0	5.5										



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: CMR CEC: CMG FT4	2	Black, Red	500	152.4	16.5	7.5	23.7Ω/M'	18.9Ω/M'	.180	4.57	110	76%	12	39	26	85
					U-1000	U-304.8	35.0	15.9	77.7Ω/km	62.0Ω/km	x	x						
					1000	304.8	37.0	16.8			.360	9.14						



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	—	1	Blue, White	250	76.2	8.0	3.6	17.8Ω/M'	4.6Ω/M'	.234	5.94	110	76%	13	43	26	85
					500	152.4	14.5	6.6	48.5Ω/km	15.2Ω/km								
					U-1000	U-304.8	30.0	13.6										
					1000	304.8	32.0	14.5										



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.

