



Product: [1696A](#) 

Digital Audio Cable, 1 Pr #22, Str TC, Foil + Braid, PVC Jkt

Product Description

Digital Audio Cable, 1 Pair 22 AWG (7 x 30) Tinned Copper, Datalene® Insulation, Overall Beldfoil® Shield, 90% Tinned Copper Braid Shield, PVC jacket

Technical Specifications

Product Overview

Suitable Applications:	Digital audio, Interconnect between audio equipment such as microphones, speakers, amplifiers, mixing consoles
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	1	22 AWG	7x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code	Notes
Pair(s)	PE - Polyethylene (Foam)	0.027 in (0.69 mm)	0.082 in (2.1 mm)	Blue & White	HDPE

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC
Braid	Tinned Copper (TC)	90%	

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.025 in (0.64 mm)	0.235 in (5.97 mm)

Overall Cable Diameter (Nominal):	0.235 in (5.97 mm)
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance	Nom. Delay	Nom. Inductance	Nom. Velocity of Prop.	Max. Current
Pair(s)	18.2 Ohm/1000ft	13 pF/ft (43 pF/m)	26 pF/ft (85 pF/m)	110 Ohm	1.3 ns/ft	0.18 μH/ft (0.59 μH/m)	76%	6 Amps per conductor @ 30°C

Nom Outer Shield DCR@Cond DCR1-cnvc:	5.89 Ohm/1000ft (19.3 Ohm/km)
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High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss (Attenuation)
0.384	0.58 dB/100ft
0.7056	0.69 dB/100ft
0.768	0.7 dB/100ft
1.024	0.76 dB/100ft
1.4112	0.82 dB/100ft
1.536	0.84 dB/100ft
2.048	0.88 dB/100ft
2.8224	0.93 dB/100ft
3.072	0.95 dB/100ft

4.096	1.09 dB/100ft
5.6448	1.32 dB/100ft
6.144	1.37 dB/100ft
8.192	1.48 dB/100ft
11.2896	1.74 dB/100ft
12.288	1.77 dB/100ft
24.576	2.41 dB/100ft

Voltage

UL Voltage Rating
300 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
60°C	-30°C to +60°C

Bend Radius

Stationary Min.	Installation Min.
2.4 in (61 mm)	2.4 in (61 mm)

Max. Pull Tension:	23.7 lbs (10.8 kg)
Bulk Cable Weight:	31 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	AES/EBU

Product Notes

Notes:	Cabling has two rod fillers for improved electrical performance.
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History

Update and Revision:	Revision Number: 0.479 Revision Date: 09-07-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
1696A B59250	Black, Matte	Reel	250 ft	612825121329	
1696A B59500	Black, Matte	Reel	500 ft	612825121336	
1696A B591000	Black, Matte	Reel	1,000 ft	612825121312	C
1696A B59U1000	Black, Matte	Reel	1,000 ft	612825121305	

Footnote:	C - CRATE REEL PUT-UP.
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