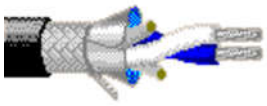
Part Number: 1696A

Audio Cable, #22-2c, TC, O/A Foil, CM



Product Description

Digital Audio Cable, 1-22 AWG stranded tinned copper pair with Datalene® insulation, fillers, Beldfoil® shield +90% tinned copper braid, drain, PVC jacket

Technical Specifications

Product Overview

Environmental Space:	Indoor (Not Riser or Plenum)

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22	7x30	TC - Tinned Copper	0.03 in	1

Conductor Count:	2
Total Number of Pairs:	1
Conductor Size:	22 AWG

Insulation

Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
FHDPE - Foamed High Density Polyethylene	Datalene®	0.082 in	0.026 in

Color Chart

Number	Color
1	Light Blue & White

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire Diameter	Drainwire AWG	Drainwire Construction n x D
Tape	1	Aluminum/Polyester	Beldfoil® (Z-Fold®)	100 %	TC - Tinned Copper	0.024 in	24	7x32
Braid	2	TC - Tinned Copper		90 %				

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.235 in	0.025 in
	0.235 in	

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR
17.8 Ohm/1000ft	17.8 Ohm/1000ft	5.89 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
13 pF/ft	26 pF/ft

Inductance

Nominal Inductance
0.18 µH/ft

Impedance

Nominal Characteristic Impedance
110 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
0.384 MHz	0.58 dB/100ft
0.7056 MHz	0.69 dB/100ft
0.768 MHz	0.7 dB/100ft
1.024 MHz	0.76 dB/100ft
1.4112 MHz	0.82 dB/100ft
1.536 MHz	0.84 dB/100ft
2.048 MHz	0.88 dB/100ft
2.8224 MHz	0.93 dB/100ft
3.072 MHz	0.95 dB/100ft
4.096 MHz	1.09 dB/100ft
5.6448 MHz	1.32 dB/100ft
6.144 MHz	1.37 dB/100ft
8.192 MHz	1.48 dB/100ft
11.2896 MHz	1.74 dB/100ft
12.288 MHz	1.77 dB/100ft
24.576 MHz	2.41 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.3 ns/ft	76 %

High Freq

Frequency [MHz]
0.384 MHz
0.7056 MHz
0.768 MHz
1.024 MHz
1.4112 MHz
1.536 MHz
2.048 MHz
2.8224 MHz
3.072 MHz
4.096 MHz
5.6448 MHz
6.144 MHz
8.192 MHz
11.2896 MHz
12.288 MHz
24.576 MHz

Current

Max. Recommended Current [A]
3.8 Amps per conductor @ 25°C

Voltage

Non-UL Voltage Rating
300 V RMS

Temperature Range

Non-UL Temp Rating:	60°C
Operating Temp Range:	-30°C To +60°C

Mechanical Characteristics

Bulk Cable Weight:	30 lbs/1000ft
Max Recommended Pulling Tension:	56 lbs
Min Bend Radius/Minor Axis:	2.5 in

Standards

CPR Euroclass:	Eca
Other Specification:	AES/EBU

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No

Part Number

Variants

Item #	Color	Footnote
1696A B591000	Black, Matte	C
1696A B59250	Black, Matte	
1696A B59500	Black, Matte	
1696A B59U1000	Black, Matte	

Footnote:	C - CRATE REEL PUT-UP.

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