



1696A Paired - AES/EBU Digital Audio Cable



Metric Version
For more information please
call
1-800-Belden1

See Put-ups and Colors

Description:

22 AWG stranded (7x30) tinned copper conductors, Datalene® insulation, twisted pair with fillers, overall 100% Beldfoil® Shield plus 90% tinned copper braid shield, 24 AWG tinned copper drain wire, PVC jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	1
Total Number of Conductors	2
AWG	22
Stranding	7x30
Conductor Diameter	0.762 mm
Conductor Material	TC - Tinned Copper

INSULATION:

Insulation Material Trade Name	Datalene®
Insulation Material	FHDPE - Foam High Density Polyethylene
Insulation Diameter	2.083 mm
Lay Length	6.35 cm
Twists/ft.	4.80

Pair Color Code Chart :

Number	Color
1	Light Blue & White

OUTER SHIELD:

Outer Shield Material Trade Name	Beldfoil® (Z-Fold®)
Outer Shield Type	Tape/Braid

Outer Shield Material :

Layer Number	Material Trade Name	Type	Material	% Coverage (%)
1	Beldfoil® (Z-fold®)	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	90

Outer Shield % Coverage	100 %
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OUTER SHIELD DRAIN WIRE :

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

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	5.944 mm
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-30°C To +60°C
Non-UL Temperature Rating	60°C
Bulk Cable Weight	46.134 Kg/Km
Max. Recommended Pulling Tension	249.099 N
Min. Bend Radius (Install)	55.88 mm

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

Other Specification	AES/EBU
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PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	110 Ohms
Nom. Inductance	0.591 µH/m
Nom. Capacitance Conductor to Conductor @ 1 KHz	42.653 pF/m
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	85.306 pF/m
Nominal Velocity of Propagation	76 %
Nominal Delay	4.265 ns/m
Nom. Conductor DC Resistance @ 20 Deg. C	58.402 Ohms/km
Nominal Outer Shield DC Resistance @ 20 Deg. C	15.093 Ohms/km
Nom. Attenuation (dB/100 ft) :	

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100m)
	0.384			1.903
	0.706			2.264
	0.768			2.297
	1.024			2.494
	1.411			2.69
	1.536			2.756
	2.048			2.887
	2.822			3.051
	3.072			3.117
	4.096			3.576
	5.645			4.331
	6.144			4.495
	8.192			4.856
	11.29			5.709
	12.288			5.807
	24.576			7.907

Max. Operating Voltage - Non-UL 300 V RMS
 Max. Recommended Current 3.8 Amps per conductor @ 25°C

PUT-UPS AND COLORS:

Item	Description	Put-Up (M)	Ship Weight (kgs.)	Jacket Color	Notes
1696A B591000	2 #22 FHDPE SHLD PVC	304.8	14.528	BLACK, MATTE	C
1696A B59250	2 #22 FHDPE SHLD PVC	76.2	3.632	BLACK, MATTE	
1696A B59500	2 #22 FHDPE SHLD PVC	152.4	7.264	BLACK, MATTE	
1696A B59U1000	2 #22 FHDPE SHLD PVC	U304.8	13.62	BLACK, MATTE	

C = CRATE REEL PUT-UP.

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