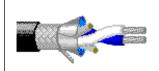


1696A Paired - Single-Pair Cable





For more information please call 1-800-Belden1

See Put-ups and Colors

Description:

 $22\ AWG\ stranded\ (7x30)\ TC\ conductors, Datalene @insulation, twisted\ pair\ with\ fillers,\ overall\ Beldfoil @+TC\ braid\ shield\ (90\%\ coverage),\ 24\ AWG\ drain\ wire,\ PVC\ jacket.$

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	1
Total Number of Conductors	2
AWG	22
Stranding	7x30
Conductor Diameter	.030 in.
Conductor Material	TC - Tinned Copper

INSULATION:

Insulation Material Trade Name	Datalene®	
Insulation Material	FHDPE - Foam High Density Polyethylene	
Insulation Diameter	.082 in.	
Lay Length	2.5 in.	
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	Туре	Material	% Coverage (%)
1	Beldfoil® (Z-fold®)	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	90

Outer Shield %Coverage 100 %

OUTER SHIELD DRAIN WIRE:

Outer Shield Drain Wire AWG

Outer Shield Drain Wire Stranding

7x32



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Outer Shield Drain Wire Conductor Material	TC - Tinned Copper
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OUTER JACKET:

Outer Jacket Material PVC - Polyvinyl Chloride

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter .234 in.

MECHANICAL CHARACTERISTICS:

Operating Temperature Range
-30°C To +60°C

Non-UL Temperature Rating
60°C

Bulk Cable Weight
31 lbs/1000 ft.

Max. Recommended Pulling Tension
56 lbs.

Min. Bend Radius (Install)
2.2 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
Other Specification	AES/EBU

PLENUM/NON-PLENUM:

Plenum (Y/N) N

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	110 Ohms
Nom. Inductance	.18 μH/ft
Nom. Capacitance Conductor to Conductor @ 1 KHz	13.0 pF/ft
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	26 pF/ft
Nominal Velocity of Propagation	76 %
Nominal Delay	1.3 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	17.8 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20 Deg. C	5.89 Ohms/1000 ft
Nom. Attenuation (dB/100 ft):	



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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	.384			.58
	.7056			.69
	.768			.7
	1.024			.76
	1.4112			.82
	1.536			.84
	2.048			.88
	2.8224			.93
	3.072			.95
	4.096			1.09
	5.6448			1.32
	6.144			1.37
	8.192			1.48
	11.2896			1.74
	12.288			1.77
	24.576			2.41

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 (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1696A B591000	2 #22 FHDPE SHLD PVC	1000	32	BLACK, MATTE	С
1696A B59250	2 #22 FHDPE SHLD PVC	250	7.25	BLACK, MATTE	
1696A B59500	2 #22 FHDPE SHLD PVC	500	14.5	BLACK, MATTE	
1696A B59U1000	2 #22 FHDPE SHLD PVC	U1000	30	BLACK, MATTE	

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 08-26-2005

Detailed Specifications & Technical Data



1696A Paired - Single-Pair Cable

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