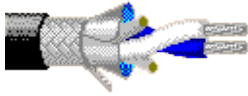


## 1696A Multi-Conductor - Single-Pair Cable

For more Information  
please call

1-800-Belden1



### 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 (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
1	22	7x30	TC - Tinned Copper	0.762

#### Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (mm)
Datalene®	FHDPE - Foam High Density Polyethylene	2.0828

#### Outer Shield

Outer Shield Material:

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

Outer Shield Drain Wire AWG:

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

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cabling

Overall Nominal Diameter: 5.944 mm

#### Pair

Pair Color Code Chart:

Number	Color
1	Light Blue & White

Pair Lay Length & Direction:

Lay Length (mm)	Twists/ft. (twist/m)
63.49975	15.749

### Mechanical Characteristics (Overall)

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)/Minor Axis:	55.880 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

EU CE Mark:	Yes
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

### Plenum/Non-Plenum

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

### Nom. Characteristic Impedance:

Impedance (Ohm)

110

### Nom. Inductance:

Inductance (µH/m)

0.59058

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

42.653

### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

85.306

### Nominal Velocity of Propagation:

VP (%)

76

### Nominal Delay:

Delay (ns/m)

4.2653

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

58.4018

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

19.3251

### Nom. Attenuation:

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

.384	1.90298
.7056	2.26389
.768	2.2967
1.024	2.49356
1.4112	2.69042
1.536	2.75604
2.048	2.88728
2.8224	3.05133
3.072	3.11695

4.096	3.57629
5.6448	4.33092
6.144	4.49497
8.192	4.85588
11.2896	5.70894
12.288	5.80737
24.576	7.90721

**Max. Operating Voltage - Non-UL:**

<b>Voltage</b>
300 V RMS

**Max. Recommended Current:**

<b>Current</b>
3.8 Amps per conductor @ 25°C

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1696A B59U1000	305 MT	14.515 KG	BLACK, MATTE		2 #22 FHDPE SHLD PVC
1696A B591000	305 MT	14.969 KG	BLACK, MATTE	C	2 #22 FHDPE SHLD PVC
1696A B59250	76 MT	3.742 KG	BLACK, MATTE		2 #22 FHDPE SHLD PVC
1696A B59500	152 MT	6.804 KG	BLACK, MATTE		2 #22 FHDPE SHLD PVC

**Notes:**

C = CRATE REEL PUT-UP.

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