

1696A Multi-Conductor - Single-Pair Cable



For more Information
please call

1-800-Belden1

**General 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. (in.)
1	22	7x30	TC - Tinned Copper	.030

Total Number of Conductors: 2

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Datalene®	FHDPE - Foam High Density Polyethylene	.082

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 Cable

Overall Nominal Diameter: 0.235 in.

Pair

Pair Color Code Chart:

Number	Color
1	Light Blue & White

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +60°C
Non-UL Temperature Rating:	60°C
Bulk Cable Weight:	30 lbs/1000 ft.
Max. Recommended Pulling Tension:	56 lbs.
Min. Bend Radius/Minor Axis:	2.500 in.

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

EU Directive 2011/65/EU (RoHS II):	Yes
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

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CA Prop 65 (CJ for Wire & Cable): Yes

MIL Order #39 (China RoHS): Yes

Other Specification: AES/EBU

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

110

Nom. Inductance:

Inductance (µH/ft)

.18

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

13.0

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

26

Nominal Velocity of Propagation:

VP (%)

76

Nominal Delay:

Delay (ns/ft)

1.3

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

17.8

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

5.89

Nom. Attenuation:

Freq. (MHz)	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:

Voltage

300 V RMS

Max. Recommended Current:

Current

3.8 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1696A B59U1000	1,000 FT	32.000 LB	BLACK, MATTE		2 #22 FHDPE SHLD PVC
1696A B59I1000	1,000 FT	34.000 LB	BLACK, MATTE	C	2 #22 FHDPE SHLD PVC
1696A B59250	250 FT	8.500 LB	BLACK, MATTE		2 #22 FHDPE SHLD PVC
1696A B59500	500 FT	17.000 LB	BLACK, MATTE		2 #22 FHDPE SHLD PVC

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Notes:

C = CRATE REEL PUT-UP.

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