



Part Number: 7789A

VideoFLEX® Snake, Sub-miniature, #23-5 Coax, CMR

## Product Description

Digital Coax Snake Cable, Riser-CMR, 5-Sub-miniature 23 AWG, solid bare copper conductors, foam HDPE core, Duofoil® +95% tinned copper braid, PVC jacket

## Product Specifications

### AG.Filter Attributes

Total Number of Conductors:	5
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## Technical Specifications

### AG\_0401

UL Flammability:	UL1666 Vertical Shaft
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CSA Flammability:	FT4
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### APAC Standard

MII Order #39 (China RoHS):	Yes
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### Applicable Patents

Patent:	<a href="http://www.belden.com/p">http://www.belden.com/p</a>
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### Bend Radius

Min Bend Radius/Minor Axis:	5.5 in
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### CCB-Sub-Part Number

Plenum (Y/N):	No
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## Connectors

Suggested Connectors:	Kings2065-11-9 75 Ohm BNC, each coax
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## Contact Information

PHONE_NUM:	1-800-Belden1
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## EU Directive

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01

## General Electrical Parameters

Other Electrical Characteristic 1:	Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination.
Other Electrical Characteristic 2:	Return Loss Tested in Accordance With ASTM D-4566 Paragraph 45.3, Using a 75 Ohm Fixed Bridge and Termination.
Sweep Testing:	Sweep tested 5 MHz to 4.5 GHz.

## North American Standard

CA Prop 65 (CJ for Wire & Cable):	Yes
CEC/C(UL) Specification:	CMG
NEC/(UL) Specification:	CMR
RG Type:	Mini

## Use

Suitability - Outdoor:	Yes
Max Recommended Pulling Tension:	180 lbs
Suitability - Indoor:	Yes

## Impedance:

Nominal Characteristic Impedance
75 Ohm

## Inductance:

Nominal Inductance
0.106 $\mu$ H/ft

### Conductor DCR:

Nominal Conductor DCR	Nominal Inner Shield DCR
20.1 Ohm/1000ft	7.6 Ohm/1000ft

### Color Chart 3:

Number	Color
1	Red
2	Green
3	Blue
4	White
5	Yellow

### Delay:

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.24 ns/ft	83 %

### Voltage:

UL Voltage Rating
300V RMS V

### High Freq:

Min. RL (Return Loss) [dB]
23 dB
21 dB

### Innershield:

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum Foil-Polyester Tape-Aluminum Foil		Duofoil® 100 %
Braid	2	TC- Tinned Copper		95 %

### PB HD-SDI Coax Table:

Description	Part No.	UL NEC/C(UL) CEC Type	Standard Lengths	Standard Unit Weight	Conductor (stranding) Diameter Norm. DCR	Nominal Core OD	Shielding Materials Nom. DCR	Nominal OD	Nom. Imp ( )	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Attenuation
Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	pF/Ft.	pF/m	MHz	dB/100 Ft.	dB/100m
Digital Coax Snake Cable, Riser-CMR, 5-Sub-miniature 23 AWG, solid bare copper conductors, foam HDPE core, Duofoil® +95% tinned copper braid, PVC jacket												

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SDI/HDTV	NEC:	Hard Code	136 lbs/1000ft	Hard Code	23	0.102 in	Hard code	0.539 in	Hard Code	83 %	Hard Code	1 MHz	0.4 dB/100ft	Hard Code
Digital Video		CMR	Solid		3.6 MHz		0.8 dB/100ft							
CEC		0.023 in		10 MHz		1.2 dB/100ft								
CMG		BC - Bare Copper		71.5 MHz		3.1 dB/100ft								
20.1 Ohm/1000ft		135 MHz		3.8 dB/100ft										
Hard Code		5.4 dB/100ft												

**Capacitance:**

<b>Nom. Capacitance Conductor to Shield</b>	
16.5 pF/ft	

**High Frequency (Nominal/Typical):**

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.4 dB/100ft
3.6 MHz	0.8 dB/100ft
10 MHz	1.2 dB/100ft
71.5 MHz	3.1 dB/100ft
135 MHz	3.8 dB/100ft
270 MHz	5.4 dB/100ft
360 MHz	6.2 dB/100ft
540 MHz	7.7 dB/100ft
720 MHz	9.1 dB/100ft
750 MHz	9.5 dB/100ft
1000 MHz	10.5 dB/100ft
1500 MHz	13 dB/100ft
2500 MHz	16.9 dB/100ft
3000 MHz	18.5 dB/100ft
4500 MHz	24.6 dB/100ft

**Innerjacket:**

Material	Nominal Diameter
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PVC - Polyvinyl Chloride	0.159 in
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### Insulation:

Material	Nominal Diameter
Gasinjected FHDPE - Foam High Density Polyethylene	0.102 in

### Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.539 in

### Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
23	Solid	BC - Bare Copper	0.023 in	5

### Other Electrical Information:

Other Electrical Characteristic 1	Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination.
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Other Electrical Characteristic 2	Return Loss Tested in Accordance With ASTM D-4566 Paragraph 45.3, Using a 75 Ohm Fixed Bridge and Termination.
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Sweep Testing	Sweep tested 5 MHz to 4.5 GHz.
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## Product Variants

Part Number	Color	Put-Up Type	Length
7789A	BLACK, MATTE	Reel	1000 ft
7789A	MATTE BLACK	Reel	305 m
7789A B591000	BLACK, MATTE	Reel	1000 ft
7789A	BLACK, MATTE	Reel	500 ft
7789A	MATTE BLACK	Reel	152 m
7789A B59500	BLACK, MATTE	Reel	500 ft
7789A			

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.