



Part Number: 7788A

VideoFLEX® Snake, Sub-miniature, #23-4 Coax, CMR

Product Description

Digital Coax Snake Cable, Riser-CMR, 4-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:	4
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Technical Specifications

AG_0401

UL Flammability:	UL1666 Vertical Shaft
CSA Flammability:	FT4

APAC Standard

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

Patent:	http://www.belden.com/p
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Bend Radius

Min Bend Radius/Minor Axis:	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:	144 lbs
Suitability - Indoor:	Yes

Impedance:

Nominal Characteristic Impedance

75 Ohm

Inductance:

Nominal Inductance

0.106 μ 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

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 Nom. 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, 4-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	103 lbs/1000ft	Hard Code	23	0.102 in	Hard code	0.481 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:

Nom. Capacitance Conductor to Shield

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
PVC - Polyvinyl Chloride	0.159 in

Insulation:

Material	Nominal Diameter
Gas injected FHDPE - Foam High Density Polyethylene	0.102 in

Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.481 in

Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
23	Solid	BC - Bare Copper	0.023 in	4

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.
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.

Product Variants

Part Number	Color	Put-Up Type	Length
7788A	BLACK, MATTE	Reel	1000 ft
7788A	MATTE BLACK	Reel	305 m
7788A B591000	BLACK, MATTE	Reel	1000 ft
7788A			

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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.