

## Product: [7787A](#)

VideoFLEX® Snake, Sub-miniature, #23-3 Coax, CMR



### Product Description

Digital Coax Snake Cable, Riser-CMR, 3-Sub-miniature 23 AWG, solid bare copper conductors, foam HDPE core, Duofoil® +95% tinned copper braid, PVC jacket

### Technical Specifications

#### Product Overview

Suitable Applications:	SMPT 2081-1 6 Gb/s UHDTV, SMPTE 424M 3 Gb/s HD-SDI 1080p, SDI/HDTV Digital Video, High Definition (HD), Standard Definition (SDI)
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#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
23	Solid	BC - Bare Copper	0.023 in	3

Conductor Count: 3

##### Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.102 in

Insulation, Table Note: Gas Injected

##### Color Chart

Number	Color
1	Red
2	Green
3	Blue

##### Inner Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Alum / Poly / Alum	Duofoil®	100 %
Braid	2	TC - Tinned Copper		95 %

##### Inner Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.159 in

##### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.44 in

### Electrical Characteristics

##### Conductor DCR

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

##### Capacitance

**Nom. Capacitance Conductor to Shield**

16.5 pF/ft

**Inductance****Nominal Inductance**

0.106 µH/ft

**Impedance****Nominal Characteristic Impedance**

75 Ohm

**Return Loss (RL)**

Frequency [MHz]	Minimum Return (RL)
5-1600 MHz	23 dB
1600-4500 MHz	21 dB
4500-6000 MHz	15 dB

**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
6000 MHz	28.97 dB/100ft

**Delay****Nominal Delay** **Nominal Velocity of Propagation (VP) [%]**

1.24 ns/ft 83 %

**Voltage****UL Voltage Rating**

300 V RMS

**Temperature Range**

Non-UL Temp Rating:	75°C
UL Temp Rating:	60°C
Operating Temp Range:	-35°C To +75°C

**Mechanical Characteristics**

Bulk Cable Weight:	85 lbs/1000ft
Max Recommended Pulling Tension:	108 lbs
Min Bend Radius/Minor Axis:	4.5 in

**Standards**

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
RG Type:	Mini 59/U Type
Series Type:	Sub-miniature 59

**Applicable Environmental and Other Programs**

Environmental Space:	Indoor/Outdoor
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EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Burial:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only

## Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1666 Vertical Shaft
CSA Flammability:	FT4
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Part Number

### Variants

Item #	Color	Putup Type	Length	UPC
7787A B59500	Black, Matte	Reel	500 ft	612825355427
7787A B591000	Black, Matte	Reel	1,000 ft	612825357964

Footnote: C - CRATE REEL PUT-UP.

## History

Update and Revision:	Revision Number: 0.274 Revision Date: 04-28-2020
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