


Product: [7710A](#) 



VideoFLEX® Snake, RG6, #18-3 Coax, CMR

### Product Description

VideoFLEX® Digital Coax Snake Cable, Riser-CMR, 3-RG6 18 AWG, solid bare copper conductors, foam HDPE core, Duofoil® +95% tinned copper braid, PVC jacket

### Technical Specifications

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR	Conductor Resistance	Nominal Inner Shield DCR	Outer Conductor DCR
6.4 Ohm/1000ft	6.4 Ohm/1000ft		3 Ohm/1000ft	3.0 Ohm/1000ft

##### Capacitance

Nom. Capacitance Conductor to Shield
16.2 pF/ft

##### Impedance

Nominal Characteristic Impedance
75 Ohm

##### Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss (SRL)
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	0.24 dB/100ft
3.58 MHz	0.44 dB/100ft
5 MHz	0.52 dB/100ft
7 MHz	0.61 dB/100ft
10 MHz	0.71 dB/100ft
67.5 MHz	1.65 dB/100ft
71.5 MHz	1.69 dB/100ft
88.5 MHz	1.86 dB/100ft
100 MHz	1.95 dB/100ft
135 MHz	2.24 dB/100ft
143 MHz	2.3 dB/100ft
180 MHz	2.57 dB/100ft
270 MHz	3.17 dB/100ft
360 MHz	3.69 dB/100ft
540 MHz	4.6 dB/100ft
720 MHz	5.38 dB/100ft
750 MHz	5.5 dB/100ft
1000 MHz	6.42 dB/100ft

1500 MHz	7.99 dB/100ft
2000 MHz	9.37 dB/100ft
2250 MHz	10.01 dB/100ft
3000 MHz	11.78 dB/100ft
4500 MHz	14.7 dB/100ft
6000 MHz	17.7 dB/100ft

#### Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.24 ns/ft	82 %

#### Voltage

UL Voltage Rating
300 V RMS

#### Temperature Range

Non-UL Temp Rating:	75°C
UL Temp Rating:	60°C
Operating Temp Range:	-40°C To +75°C

#### Mechanical Characteristics

Bulk Cable Weight:	243 lbs/1000ft
Max Recommended Pulling Tension:	207 lbs
Min Bend Radius/Minor Axis:	8 in

#### Standards

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
UL AWM Style:	UL Style 1354 (each coax); UL Style 2688 (overall)
RG Type:	6/U Type
Series Type:	Series 6

#### Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor
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:	No
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
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
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7710A B59500	Black, Matte	Reel	500 ft	612825357315
7710A B591000	Black, Matte	Reel	1,000 ft	612825357292

Footnote: C - CRATE REEL PUT-UP.

## History

Update and Revision: Revision Number: 0.265 Revision Date: 04-28-2020

## Product Overview

Suitable Applications: SMPTE 2081-1 6 Gb/s UHD TV, SMPTE 424M 3 Gb/s HD-SDI 1080p, SDI/HDTV Digital Video, High Definition (HD), Standard Definition (SDI)

## Physical Characteristics (Overall)

### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
18	Solid	BC - Bare Copper	0.04 in	3

Conductor Count: 3

### Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.18 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	0.275 in

### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.746 in

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