

## Product: [1505S3](#)

VideoFLEX® Snake, Banana Peel, RG59, #20-3 Coax, CMR



### Product Description

20 AWG solid .032" bare copper conductors, gas-injected foam HDPE insulation, Duofoil® (100% coverage) plus a tinned copper braid shield (95% coverage), individual PVC jackets.

### Technical Specifications

#### Product Overview

Suitable Applications:	RGB, VGA, SVGA, XGA, SXGA, UXGA, HDTV, LCD, Plasma, Digital Signage, Component Video, Video Mult, Animation, Special Effects, Suitable for use in Risers
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#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	Solid	BC - Bare Copper	0.032 in	3

Conductor Count: 3

##### Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.145 in

Insulation Table Notes:

Gas Injected

##### Color Chart

Number	Color
1	Red
2	Green
3	Blue

##### Inner Shield

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	2	Tinned Copper (TC)		95%

##### Inner Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.235 in

##### Outer Jacket

Material	Nominal Diameter
Banana Peel (No Overall Jacket)	0.502 in

#### Construction and Dimensions

##### Cabling

Filler
Bonded Spline

## Electrical Characteristics

### Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Inner Shield DCR	Outer Conductor DCR
10 Ohm/1000ft	10 Ohm/1000ft	3.8 Ohm/1000ft	3.8 Ohm/1000ft

### Capacitance

Nom. Capacitance Conductor to Shield
16.2 pF/ft

### Inductance

Nominal Inductance
0.107 µH/ft

### Impedance

Nominal Characteristic Impedance
75 Ohm

### Return Loss

Frequency [MHz]	Minimum Return (RL)
5-475 MHz	20 dB
475-525 MHz	15 dB
525-850 MHz	20 dB
850-4500 MHz	15 dB

### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.3 dB/100ft
3.6 MHz	0.6 dB/100ft
10 MHz	0.9 dB/100ft
71.5 MHz	2.1 dB/100ft
135 MHz	2.7 dB/100ft
270 MHz	3.8 dB/100ft
360 MHz	4.4 dB/100ft
540 MHz	5.5 dB/100ft
720 MHz	6.4 dB/100ft
750 MHz	6.5 dB/100ft
1000 MHz	7.6 dB/100ft
1500 MHz	9.4 dB/100ft
2500 MHz	12.4 dB/100ft
3000 MHz	13.8 dB/100ft

### Delay

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

### Voltage

UL Voltage Rating
300 V RMS

### Temperature Range

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

### Mechanical Characteristics

Bulk Cable Weight:	97 lbs/1000ft
Maximum Recommended Pulling Tension:	216 lbs
Minimum Minor Axis Bend Radius:	6.5 in

### Standards

NEC(UL) Compliance:	CMR
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CEC/C(UL) Compliance:	CMG
RG Type:	59
Series Type:	59

## 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 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

## 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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## Related Part Numbers

### Variants

Item #	Color	Put-Up Type	Length	UPC
1505S3 000500	None	Reel	500 ft	612825356462
1505S3 0001000	None	Reel	1,000 ft	612825356479

Footnote:

C - CRATE REEL PUT-UP.

## History

Update and Revision:	Revision Number: 0.349 Revision Date: 02-03-2025
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