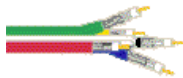


## 1694S6 Coax - VideoFLEX® Snake Cable for Precision Analog & Digital Video



For more Information  
please call

1-800-Belden1



### General Description:

18 AWG solid .040" bare copper conductors, gas-injected foam HDPE insulation, Duofoil® (100% Coverage) plus a tinned copper braid shield (95% coverage), individual PVC jackets.

### Usage (Overall)

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

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
6	18	Solid	BC - Bare Copper	.040

Total Number of Conductors:

6

#### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.180

#### Inner Shield

Inner Shield Material:

Layer #	Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	95

#### Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (in.)
PVC - Polyvinyl Chloride	.274

Inner Jacket Color Code Chart:

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

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
Unjacketed

### Overall Cable

Overall Cabling Fillers:

Bonded Spline

Overall Nominal Diameter:

0.822 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range:

-35°C To +75°C

UL Temperature Rating:

60°C

Non-UL Temperature Rating:

75°C

Bulk Cable Weight:

291 lbs/1000 ft.

Max. Recommended Pulling Tension:

432 lbs.

Min. Bend Radius/Minor Axis:

10 in.

## 1694S6 Coax - VideoFLEX® Snake Cable for Precision Analog &amp; Digital Video

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

NEC(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
RG Type:	6/U

## Applicable Patents:

## Country

www.belden.com/p

## Flame Test

UL Flame Test:	UL1666 Vertical Shaft
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## Suitability

Suitability - Indoor:	Yes
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## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

## Nom. Characteristic Impedance:

## Impedance (Ohm)

75

## Nom. Inductance:

## Inductance (µH/ft)

0.107

## Nom. Capacitance Conductor to Shield:

## Capacitance (pF/ft)

16.2

## Nominal Velocity of Propagation:

## VP (%)

82

## Nominal Delay:

## Delay (ns/ft)

1.24

## Nom. Conductor DC Resistance:

## DCR @ 20°C (Ohm/1000 ft)

6.4

## Nom. Inner Shield DC Resistance:

## DCR @ 20°C (Ohm/1000 ft)

2.8

## Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1.000	0.240
3.580	0.440
5.000	0.520
7.000	0.610
10.000	0.710
67.500	1.650
71.500	1.690
88.500	1.860
100.000	1.950
135.000	2.240

**1694S6 Coax - VideoFLEX® Snake Cable for Precision Analog & Digital Video**

143.000	2.300
180.000	2.570
270.000	3.170
360.000	3.690
540.000	4.600
720.000	5.380
750.000	5.500
1000.000	6.420
1500.000	7.990
2000.000	9.370
2250.000	10.010
3000.000	11.780
4500.000	14.920

**Max. Operating Voltage - UL:**

<b>Voltage</b>
300 V RMS

**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.

**Minimum Return Loss:**

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5	430	20
430	510	15
510	1600	20
1600	4500	15

**Sweep Test****Sweep Testing:**

Sweep tested 5 MHz to 4.5 GHz.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1694S6 0001000	1,000 FT	333.000 LB	NONE	C	BONDED FILLER COMPOSITE
1694S6 000500	500 FT	184.000 LB	NONE	C	BONDED FILLER COMPOSITE

**Notes:**

C = CRATE REEL PUT-UP.

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