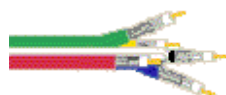


1694S5 Coax - VideoFLEX® Snake Cables for Precision Analog & Digital Video



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. (mm) |
|--------|-----|-----------|--------------------|-----------|
| 5 | 18 | Solid | BC - Bare Copper | 1.016 |

Total Number of Conductors: 5

Insulation**Insulation Material:**

| Insulation Material | Dia. (mm) |
|-----------------------------------------------------|-----------|
| Gas-injected FHDPE - Foam High Density Polyethylene | 4.572 |

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. (mm) |
|--------------------------|----------------|
| PVC - Polyvinyl Chloride | 6.9596 |

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: 18.796 mm

Mechanical Characteristics (Overall)

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| | |
|-----------------------------------|----------------|
| Operating Temperature Range: | -35°C To +75°C |
| UL Temperature Rating: | 60°C |
| Non-UL Temperature Rating: | 75°C |
| Bulk Cable Weight: | 349.727 Kg/Km |
| Max. Recommended Pulling Tension: | 1601.350 N |
| Min. Bend Radius/Minor Axis: | 203.200 mm |

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

| | |
|---------------------------------------|------------|
| NEC/(UL) Specification: | CMR |
| CEC/C(UL) Specification: | CMG |
| 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 |

Flame Test

| | |
|----------------|-----------------------|
| UL Flame Test: | UL1666 Vertical Shaft |
|----------------|-----------------------|

Suitability

| | |
|------------------------|-----|
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes |

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Electrical Characteristics (Overall)**Nom. Characteristic Impedance:**

| |
|-----------------|
| Impedance (Ohm) |
| 75 |

Nom. Inductance:

| |
|-------------------|
| Inductance (µH/m) |
| 0.351067 |

Nom. Capacitance Conductor to Shield:

| |
|--------------------|
| Capacitance (pF/m) |
| 53.1522 |

Nominal Velocity of Propagation:

| |
|--------|
| VP (%) |
| 82 |

Nominal Delay:

| |
|--------------|
| Delay (ns/m) |
| 4.06844 |

Nom. Conductor DC Resistance:

| |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 20.9984 |

Nom. Inner Shield DC Resistance:

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DCR @ 20°C (Ohm/km)

9.1868

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1.000 | 0.787 |
| 3.580 | 1.444 |
| 5.000 | 1.706 |
| 7.000 | 2.001 |
| 10.000 | 2.330 |
| 67.500 | 5.414 |
| 71.500 | 5.545 |
| 88.500 | 6.103 |
| 100.000 | 6.398 |
| 135.000 | 7.349 |
| 143.000 | 7.546 |
| 180.000 | 8.432 |
| 270.000 | 10.401 |
| 360.000 | 12.107 |
| 540.000 | 15.093 |
| 720.000 | 17.652 |
| 750.000 | 18.046 |
| 1000.000 | 21.064 |
| 1500.000 | 26.215 |
| 2000.000 | 30.743 |
| 2250.000 | 32.843 |
| 3000.000 | 38.650 |
| 4500.000 | 48.953 |

Max. Operating Voltage - UL:

Voltage

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 | 435 | 20 |
| 435 | 515 | 15 |
| 515 | 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 |
|----------------|--------|-------------|-------|-------|-------------------------|
| 1694S5 0001000 | 305 MT | 124.738 KG | NONE | C | BONDED FILLER COMPOSITE |
| 1694S5 000500 | 152 MT | 58.967 KG | NONE | C | BONDED FILLER COMPOSITE |

Notes:

C = CRATE REEL PUT-UP.

Test Reports

a) UL

- i) UL Test Reports are available on-line through the UL Client Document Access web portal.
- ii) UL Inspection Reports are also available through the UL Client Document Access web portal.

b) CSA

- i) CSA "Descriptive Report and Test Results" documents are available on the CSA Gateway Portal.
- ii) CSA Inspection Reports are maintained on the CSA issued 'flash drive' at each manufacturing location.

* other test data may be available if requested at time of order.

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