



Product: [1505S5](#)

VideoFLEX® Snake, Banana Peel, RG59, #20-5 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 |
|------------------------|--|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Nominal Diameter | No. of Coax |
|-----|-----------|------------------|------------------|-------------|
| 20 | Solid | BC - Bare Copper | 0.032 in | 5 |

| | |
|------------------|---|
| Conductor Count: | 5 |
|------------------|---|

Insulation

| Material | Nominal Diameter |
|--------------------------|------------------|
| PE - Polyethylene (Foam) | 0.145 in |

| | |
|--------------|--------------|
| Table Notes: | Gas Injected |
|--------------|--------------|

Color Chart

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

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) | 0.629 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 μ H/ft |

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 75 Ohm |

Return Loss (RL)

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

Mechanical Characteristics

| | |
|------------------------------|----------------|
| Bulk Cable Weight: | 170 lbs/1000ft |
| Max. Pull Tension: | 360 lbs |
| Min. Bend Radius/Minor Axis: | 8 in |

Standards

| | |
|-----------------------|-----|
| NEC/(UL) Compliance: | CMR |
| 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 |
|---------------|----|

Related Part Numbers

Variants

| Item # | Color | Put-Up Type | Length | UPC |
|----------------|-------|-------------|----------|--------------|
| 1505S5 000500 | None | Reel | 500 ft | 612825356448 |
| 1505S5 0001000 | None | Reel | 1,000 ft | 612825356455 |

| | |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.347 Revision Date: 11-09-2022 |
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