



Product: [7795A](#)



VideoFLEX® Snake, RG59, #20-4 Coax, CMR

Product Description

Digital Coax Snake Cable, Riser-CMR, 4-RG59 20 AWG, solid bare copper conductors, foam HDPE core, Duofoil® +95% tinned copper braid, PVC jacket

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | SMPTE 2081-1 6 Gb/s UHDTV, 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 |
| 20 | Solid | BC - Bare Copper | 0.032 in | 4 |
| Conductor Count: | | | 4 | |

| 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 |

| 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 |
| PVC - Polyvinyl Chloride | 0.706 in |

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 (RL)

| Frequency [MHz] | Minimum Return (RL) |
|-----------------|---------------------|
| 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 | 0.3 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 |
| 4500 MHz | 18 dB/100ft |
| 6000 MHz | 21.1 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: | 215 lbs/1000ft |
| Max. Pull Tension: | 288 lbs |
| Min. Bend Radius/Minor Axis: | 7 in |

Standards

| | |
|-----------------------|-----|
| NEC/(UL) Compliance: | CMR |
| CEC/C(UL) Compliance: | CMG |
| CPR Euroclass: | Eca |
| 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 - Burial: | No |
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes - Black only |

Flammability, LS0H, Toxicity Testing

| | |
|--------------------|-----------------------|
| UL Flammability: | UL1666 Vertical Shaft |
| IEC Flammability: | IEC 60332-1-2 |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

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

Related Part Numbers

Variants

| Item # | Color | Put-Up Type | Length | UPC |
|---------------|--------------|-------------|------------------------|--------------|
| 7795A B591000 | Black, Matte | Reel | 1,000 ft | 612825355342 |
| Footnote: | | | C - CRATE REEL PUT-UP. | |

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.404 Revision Date: 04-29-2024 |
|----------------------|--|

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