

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 Material

| Type  | Layer | Material           | Material Trade Name | Coverage [%] |
|-------|-------|--------------------|---------------------|--------------|
| Tape  | 1     | Alum / Poly / Alum | Duofoil®            | 100%         |
| Braid | 2     | TC - Tinned Copper |                     | 95%          |

Inner Jacket Material

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.235 in         |

Outer Jacket Material

| 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 Temp 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/U Type |
| Series Type:          | Series 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 II):    | Yes                           |
| EU Directive 2012/19/EU (WEEE):       | Yes                           |
| EU Directive 2015/863/EU:             | Yes                           |
| EU Directive Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                           | Yes                           |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2004-01-01                    |
| 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 |
|---------------|----|

Part Number

Variants

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

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.266 Revision Date: 04-28-2020 |
|----------------------|--------------------------------------------------|

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