


**Product:** [7794A](#) 

VideoFLEX® Snake, RG59, #20-3 Coax, CMR



## Product Description

Digital Coax Snake Cable, Riser-CMR, 3-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         | 3           |

|                  |   |
|------------------|---|
| Conductor Count: | 3 |
|------------------|---|

#### Insulation

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

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

#### Color Chart

| Number | Color |
|--------|-------|
| 1      | Red   |
| 2      | Green |
| 3      | Blue  |

#### 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 | 0.631 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  $\mu$ H/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:          | 171 lbs/1000ft |
| Max. Pull Tension:          | 216 lbs        |
| Min Bend Radius/Minor Axis: | 6.5 in         |

### Standards

|                       |           |
|-----------------------|-----------|
| NEC/(UL) Compliance:  | CMR       |
| CEC/C(UL) Compliance: | CMG       |
| 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, LSOH, Toxicity Testing

|                    |                       |
|--------------------|-----------------------|
| UL Flammability:   | UL1666 Vertical Shaft |
| CSA Flammability:  | FT4                   |
| UL voltage rating: | 300 V RMS             |

## Plenum/Non-Plenum

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

## Part Number

### Variants

| Item #        | Color        | Putup Type | Length   | UPC          |
|---------------|--------------|------------|----------|--------------|
| 7794A B59500  | Black, Matte | Reel       | 500 ft   | 612825355359 |
| 7794A B591000 | Black, Matte | Reel       | 1,000 ft | 612825355366 |

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

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.264 Revision Date: 04-28-2020 |
|----------------------|--|

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