

Product: [7710A](#) 



VideoFLEX® Snake, RG6, #18-3 Coax, CMR

Product Description

VideoFLEX® Digital Coax Snake Cable, Riser-CMR, 3-RG6 18 AWG, solid bare copper conductors, foam HDPE core, Duofoil® +95% tinned copper braid, PVC jacket

Technical Specifications

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Conductor DCR | Conductor Resistance | Nominal Inner Shield DCR | Outer Conductor DCR |
|-----------------------|-----------------------|----------------------|--------------------------|---------------------|
| 6.4 Ohm/1000ft        | 6.4 Ohm/1000ft        |                      | 3 Ohm/1000ft             | 3.0 Ohm/1000ft      |

Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 16.2 pF/ft                           |

Impedance

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

Return Loss (RL)

| Frequency [MHz] | Min. Structural Return Loss (SRL) |
|-----------------|-----------------------------------|
| 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           | 0.24 dB/100ft       |
| 3.58 MHz        | 0.44 dB/100ft       |
| 5 MHz           | 0.52 dB/100ft       |
| 7 MHz           | 0.61 dB/100ft       |
| 10 MHz          | 0.71 dB/100ft       |
| 67.5 MHz        | 1.65 dB/100ft       |
| 71.5 MHz        | 1.69 dB/100ft       |
| 88.5 MHz        | 1.86 dB/100ft       |
| 100 MHz         | 1.95 dB/100ft       |
| 135 MHz         | 2.24 dB/100ft       |
| 143 MHz         | 2.3 dB/100ft        |
| 180 MHz         | 2.57 dB/100ft       |
| 270 MHz         | 3.17 dB/100ft       |
| 360 MHz         | 3.69 dB/100ft       |
| 540 MHz         | 4.6 dB/100ft        |
| 720 MHz         | 5.38 dB/100ft       |
| 750 MHz         | 5.5 dB/100ft        |
| 1000 MHz        | 6.42 dB/100ft       |

|          |                |
|----------|----------------|
| 1500 MHz | 7.99 dB/100ft  |
| 2000 MHz | 9.37 dB/100ft  |
| 2250 MHz | 10.01 dB/100ft |
| 3000 MHz | 11.78 dB/100ft |
| 4500 MHz | 14.7 dB/100ft  |
| 6000 MHz | 17.7 dB/100ft  |

#### Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|------------------------------------------|
| 1.24 ns/ft    | 82 %                                     |

#### Voltage

| UL Voltage Rating |
|-------------------|
| 300 V RMS         |

### Temperature Range

|                       |                |
|-----------------------|----------------|
| Non-UL Temp Rating:   | 75°C           |
| UL Temp Rating:       | 60°C           |
| Operating Temp Range: | -40°C To +75°C |

### Mechanical Characteristics

|                                  |                |
|----------------------------------|----------------|
| Bulk Cable Weight:               | 243 lbs/1000ft |
| Max Recommended Pulling Tension: | 207 lbs        |
| Min Bend Radius/Minor Axis:      | 8 in           |

### Standards

|                          |                                                    |
|--------------------------|----------------------------------------------------|
| NEC/(UL) Specification:  | CMR                                                |
| CEC/C(UL) Specification: | CMG                                                |
| UL AWM Style:            | UL Style 1354 (each coax); UL Style 2688 (overall) |
| RG Type:                 | 6/U Type                                           |
| Series Type:             | Series 6                                           |

### 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:                           | No                            |
| 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 |
| UL voltage rating: | 300 V RMS             |

### Plenum/Non-Plenum

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

### Part Number

#### Variants

| Item # | Color | Putup Type | Length | UPC |
|--------|-------|------------|--------|-----|
|--------|-------|------------|--------|-----|

|               |              |      |          |              |
|---------------|--------------|------|----------|--------------|
| 7710A B59500  | Black, Matte | Reel | 500 ft   | 612825357315 |
| 7710A B591000 | Black, Matte | Reel | 1,000 ft | 612825357292 |

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

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.265 Revision Date: 04-28-2020 |
|----------------------|--------------------------------------------------|

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 |
|-----|-----------|------------------|------------------|-------------|
| 18  | Solid     | BC - Bare Copper | 0.04 in          | 3           |

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

Insulation

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PE - Polyethylene (Foam) | 0.18 in          |

|                         |              |
|-------------------------|--------------|
| Insulation, Table Note: | 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 | 0.275 in         |

Outer Jacket Material

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.746 in         |

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