

Part Number: 7790A



VideoFLEX® Snake, Sub-miniature, #23-6 Coax, CMR

Product Description

Digital Coax Snake Cable, Riser-CMR, 6-Sub-miniature 23 AWG, solid bare copper conductors, foam HDPE core, Duofoil® +95% tinned copper braid, PVC jacket

Technical Specifications

Product Overview

| Environmental Space: | Indoor/Outdoor |
|------------------------|--|
| 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 |
|--------------------|-----------|------------------|------------------|-------------|
| 23 | Solid | BC - Bare Copper | 0.023 in | 6 |
| Conductor Count: 6 | | | | |
| AWG : | AWG Size: | | 23 | |

Insulation

| Material | Nominal Diameter |
|---|------------------|
| Gas-injected FHDPE - Foam High Density Polyethylene | 0.102 in |

Color Chart

| Number | Color |
|--------|--------|
| 1 | Red |
| 2 | Green |
| 3 | Blue |
| 4 | White |
| 5 | Yellow |
| 6 | Brown |

Inner Shield Material

| Type | Layer | Material | Material Trade Name | Coverage [%] |
|-------|-------|--|---------------------|--------------|
| Tape | 1 | Aluminum Foil-Polyester Tape-Aluminum Foil | Duofoil® | 100 % |
| Braid | 2 | TC - Tinned Copper | | 95 % |

Inner Jacket Material

| Material | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.159 in |

Outer Jacket Material

| Material | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.597 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Conductor DCR Conductor Resistance | Nominal Inner Shield DCR | Outer Conductor DCR |
|-----------------------|--|--------------------------|---------------------|
| 20.1 Ohm/1000ft | 20.1 Ohm/1000ft | 7.6 Ohm/1000ft | 7.6 Ohm/1000ft |

Capacitance

Nom. Capacitance Conductor to Shield 16.5 pF/ft

Inductance

Nominal Inductance

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)

| ingii i requency (Nominal/Typical) | | |
|------------------------------------|---------------------|--|
| Frequency [MHz] | Nom. Insertion Loss | |
| 1 MHz | 0.4 dB/100ft | |
| 3.6 MHz | 0.8 dB/100ft | |
| 10 MHz | 1.2 dB/100ft | |
| 71.5 MHz | 3.1 dB/100ft | |
| 135 MHz | 3.8 dB/100ft | |
| 270 MHz | 5.4 dB/100ft | |
| 360 MHz | 6.2 dB/100ft | |
| 540 MHz | 7.7 dB/100ft | |
| 720 MHz | 9.1 dB/100ft | |
| 750 MHz | 9.5 dB/100ft | |
| 1000 MHz | 10.5 dB/100ft | |
| 1500 MHz | 13 dB/100ft | |
| 2500 MHz | 16.9 dB/100ft | |
| 3000 MHz | 18.5 dB/100ft | |
| 4500 MHz | 24.6 dB/100ft | |
| 6000 MHz | 28.97 dB/100ft | |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.24 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: | 162 lbs/1000ft |
|----------------------------------|----------------|
| Max Recommended Pulling Tension: | 216 lbs |
| Min Bend Radius/Minor Axis: | 6 in |

Standards

| NEC/(UL) Specification: | CMR |
|--------------------------|-------------------|
| CEC/C(UL) Specification: | CMG |
| RG Type: | Mini RG-59/U Type |
| Series Type: | Sub-miniature 59 |

Applicable Environmental and Other Programs

| 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 |
| CA Prop 65 (CJ for Wire & Cable): | 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 |
|-------------------|-----------------------|
| CSA Flammability: | FT4 |

Part Number

| Plenum (Y/N): | No . |
|-----------------------|---------------------------------------|
| Suggested Connectors: | Kings 2065-11-9 75 Ohm BNC, each coax |
| Footnote: | C - CRATE REEL PUT-UP. |

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