



Part Number: 1694F

Serial Digital Coax, Flexible, RG6 Type, 19 AWG Stranded BC, Double TC braid, CM

Product Description

Low Loss Serial Digital Coax, RG-6/U Type, 19 AWG stranded bare copper conductor, foam HDPE core, double 95% tinned copper braid, CM rated, flexible PVC jacket

Technical Specifications

Product Overview

| | |
|------------------------|-----------------------------|
| Environmental Space: | Indoor |
| Suitable Applications: | Digital Video, Analog Video |

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Nominal Diameter | No. of Coax |
|-----|-----------|------------------|------------------|-------------|
| 19 | Stranded | BC - Bare Copper | 0.04 in | 1 |

| | |
|------------------|---|
| Conductor Count: | 1 |
|------------------|---|

Insulation

| Material | Nominal Diameter |
|---|------------------|
| Gas-injected FHDPE - Foam High Density Polyethylene | 0.18 in |

Outer Shield Material

| Type | Layer | Material | Coverage [%] |
|-------|-------|--------------------|--------------|
| Braid | 1 | TC - Tinned Copper | 95 % |
| Braid | 2 | TC - Tinned Copper | 95 % |

Outer Jacket Material

| Material | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.276 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|--------------------------|---------------------|
| 8.5 Ohm/1000ft | 1.7 Ohm/1000ft | 1.7 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 17.0 pF/ft |

Inductance

| Nominal Inductance |
|--------------------|
| 0.106 μ H/ft |

Impedance

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

Return Loss (RL)

| Frequency [MHz] | Minimum Return (RL) |
|-----------------|---------------------|
| 5 - 850 MHz | 20 dB |
| 850 - 6000 MHz | 15 dB |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz | 0.24 dB/100ft |
| 3.58 MHz | 0.45 dB/100ft |
| 5 MHz | 0.54 dB/100ft |
| 6 MHz | 0.55 dB/100ft |
| 7 MHz | 0.62 dB/100ft |
| 10 MHz | 0.72 dB/100ft |
| 12 MHz | 0.83 dB/100ft |
| 25 MHz | 1.18 dB/100ft |
| 55 MHz | 1.76 dB/100ft |
| 67.5 MHz | 1.9 dB/100ft |
| 71.5 MHz | 2.0 dB/100ft |
| 88.5 MHz | 2.2 dB/100ft |
| 100 MHz | 2.4 dB/100ft |
| 135 MHz | 2.8 dB/100ft |
| 143 MHz | 2.9 dB/100ft |
| 180 MHz | 3.3 dB/100ft |
| 270 MHz | 4.0 dB/100ft |
| 360 MHz | 4.7 dB/100ft |
| 540 MHz | 5.9 dB/100ft |
| 720 MHz | 6.9 dB/100ft |
| 750 MHz | 7.1 dB/100ft |
| 1000 MHz | 8.4 dB/100ft |
| 1500 MHz | 10.6 dB/100ft |
| 2000 MHz | 12.5 dB/100ft |
| 2250 MHz | 13.4 dB/100ft |
| 3000 MHz | 15.9 dB/100ft |
| 4500 MHz | 20.6 dB/100ft |
| 6000 MHz | 28.7 dB/100ft |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.27 ns/ft | 80.0 % |

Voltage

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

Temperature Range

| | |
|-----------------------|----------------|
| UL Temp Rating: | 75°C |
| Operating Temp Range: | -30°C To +75°C |

Mechanical Characteristics

| | |
|----------------------------------|---------------|
| Bulk Cable Weight: | 50 lbs/1000ft |
| Max Recommended Pulling Tension: | 90 lbs |
| Min Bend Radius/Minor Axis: | 2.75 in |

Standards

| | |
|-------------------------|----------|
| NEC/(UL) Specification: | CM |
| RG Type: | 6/U Type |

Applicable Environmental and Other Programs

| | |
|------------------------------------|-----|
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/96/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 - Indoor: | Yes |
|-----------------------|-----|

Flammability, LS0H, Toxicity Testing

| | |
|--------------------|----------------------|
| UL Flammability: | UL 1685 - UL Loading |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

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

Part Number

Variants

| Item # | Color | UPC | Length | Footnote |
|----------------|---------------|--------------|----------|----------|
| 1694F B591000 | Black, Matte | 612825356196 | 1,000 ft | C |
| 1694F B59N1000 | Black, Matte | | 1,000 ft | |
| 1694F B59N1000 | Black, Matte | | 1,000 ft | |
| 1694F G7X1000 | Blue, Matte | 612825356110 | 1,000 ft | C |
| 1694F G7W1000 | Green, Matte | 612825356127 | 1,000 ft | C |
| 1694F G8L1000 | Orange, Matte | 612825356097 | 1,000 ft | C |
| 1694F G7V1000 | Red, Matte | 612825356134 | 1,000 ft | C |
| 1694F Z4B1000 | Violet Z4B | 612825358176 | 1,000 ft | C |
| 1694F G7Y1000 | White, Matte | 612825356103 | 1,000 ft | C |
| 1694F G8M1000 | Yellow, Matte | 612825356080 | 1,000 ft | C |

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

History

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|----------------------|--|
| Update and Revision: | Revision Number: 0.277 Revision Date: 08-22-2019 |
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