



**Product:** 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
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#### 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 $\mu$ 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
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Indoor:	Yes
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## Flammability, LS0H, Toxicity Testing

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

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## 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 B595000	Black, Matte	612825439813	5,000 ft	
1694F G7X1000	Blue, Matte	612825356110	1,000 ft	C
1694F G7X5000	Blue, Matte	612825439851	5,000 ft	
1694F G7W1000	Green, Matte	612825356127	1,000 ft	C
1694F G7W5000	Green, Matte	612825439837	5,000 ft	
1694F G8L1000	Orange, Matte	612825356097	1,000 ft	C
1694F G8L5000	Orange, Matte	612825439899	5,000 ft	
1694F G7V1000	Red, Matte	612825356134	1,000 ft	C
1694F G7V5000	Red, Matte	612825440468	5,000 ft	
1694F Z4B1000	Violet	612825358176	1,000 ft	C
1694F Z4B5000	Violet	612825439912	5,000 ft	
1694F G7Y1000	White, Matte	612825356103	1,000 ft	C
1694F G7Y5000	White, Matte	612825439882	5,000 ft	
1694F G8M1000	Yellow, Matte	612825356080	1,000 ft	C
1694F G8M5000	Yellow, Matte	612825439905	5,000 ft	

Footnote:	C - CRATE REEL PUT-UP.
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## History

Update and Revision:	Revision Number: 0.280 Revision Date: 01-31-2020
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