



## 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

Suitable Applications:	Digital Video, Analog Video
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#### 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
PE - Polyethylene (Foam)	0.18 in

Insulation, Table Note:	Gas Injected
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##### 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

Environmental Space:	Indoor
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	Putup Type	Length	UPC
1694F B591000	Black, Matte	Reel	1,000 ft	612825356196
1694F B59N1000	Black, Matte	Reel w/Small Barrel	1,000 ft	
1694F B595000	Black, Matte	Reel	5,000 ft	612825439813
1694F G7X1000	Blue, Matte	Reel	1,000 ft	612825356110
1694F G7X5000	Blue, Matte	Reel	5,000 ft	612825439851
1694F G7W1000	Green, Matte	Reel	1,000 ft	612825356127
1694F G7W5000	Green, Matte	Reel	5,000 ft	612825439837
1694F G8L1000	Orange, Matte	Reel	1,000 ft	612825356097
1694F G8L5000	Orange, Matte	Reel	5,000 ft	612825439899
1694F G7V1000	Red, Matte	Reel	1,000 ft	612825356134
1694F G7V5000	Red, Matte	Reel	5,000 ft	612825440468
1694F Z4B1000	Violet	Reel	1,000 ft	612825358176
1694F Z4B5000	Violet	Reel	5,000 ft	612825439912
1694F G7Y1000	White, Matte	Reel	1,000 ft	612825356103
1694F G7Y5000	White, Matte	Reel	5,000 ft	612825439882
1694F G8M1000	Yellow, Matte	Reel	1,000 ft	612825356080
1694F G8M5000	Yellow, Matte	Reel	5,000 ft	612825439905

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

Update and Revision:	Revision Number: 0.286 Revision Date: 04-28-2020
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