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1-800-Belden1



### General Description:

19 AWG stranded (7x27) bare copper conductor, gas-injected foam HDPE insulation, double tinned copper braid shield (95% coverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	19	7x27	BC - Bare Copper	1.016

Total Number of Conductors: 1

#### Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	4.572

#### Outer Shield

Outer Shield Material:

Layer #	Type	Outer Shield Material	Coverage (%)
1	Braid	TC - Tinned Copper	95.000
2	Braid	TC - Tinned Copper	95.000

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 7.010 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 74.410 Kg/Km

Max. Recommended Pulling Tension: 515.991 N

Min. Bend Radius/Minor Axis: 69.850 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

RG Type: 6/U

### Flame Test

UL Flame Test: UL1666 Vertical Shaft

### Suitability

Suitability - Indoor: Yes

### Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 1695A

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

75

### Nom. Inductance:

Inductance (µH/m)

0.347786

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

53.1522

### Nominal Velocity of Propagation:

VP (%)

81

### Nominal Delay:

Delay (ns/m)

4.10125

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

27.8885

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

5.5777

### Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

1.000 0.787

3.580 1.476

5.000 1.772

6.000 1.805

7.000 2.034

10.000 2.362

12.000 2.723

25.000 3.872

67.500 6.234

71.500 6.562

88.500 7.218

100.000 7.874

135.000 9.187

143.000 9.515

METRIC MEASUREMENT VERSION

## 1694F Coax - Low Loss Serial Digital Coax

180.000	10.827
270.000	13.124
360.000	15.421
540.000	19.358
720.000	22.639
750.000	23.295
1000.000	27.560
1500.000	34.779
2000.000	41.013
2250.000	43.965
3000.000	52.168
4500.000	67.589
6000.000	94.165

### Max. Operating Voltage - UL:

<b>Voltage</b>
300 V RMS

### Max. Operating Voltage - Non-UL:

<b>Voltage</b>
300 V RMS

**Other Electrical Characteristic 1:** Return Loss: Fixed bridge and termination

### Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5.000	850.000	20.000
850.000	6000.000	15.000

### Sweep Test

**Sweep Testing:** 5-6000 MHz

### Notes (Overall)

**Notes:** Print legend includes sequential footage marks.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1694F B59N1000	1,000 FT	53.000 LB	BLACK, MATTE		#19 GIFHDLDPPE DBLB FRPVC
1694F B591000	1,000 FT	54.000 LB	BLACK, MATTE	C	#19 GIFHDLDPPE DBLB FRPVC
1694F B595000	5,000 FT	265.000 LB	BLACK, MATTE		#19 GIFHDLDPPE DBLB FRPVC
1694F G7V1000	1,000 FT	54.000 LB	RED, MATTE	C	#19 GIFHDLDPPE DBLB FRPVC
1694F G7V5000	5,000 FT	265.000 LB	RED, MATTE		#19 GIFHDLDPPE DBLB FRPVC
1694F G7W1000	1,000 FT	54.000 LB	GREEN, MATTE	C	#19 GIFHDLDPPE DBLB FRPVC
1694F G7W5000	5,000 FT	265.000 LB	GREEN, MATTE		#19 GIFHDLDPPE DBLB FRPVC
1694F G7X1000	1,000 FT	54.000 LB	BLUE, MATTE	C	#19 GIFHDLDPPE DBLB FRPVC
1694F G7X5000	5,000 FT	265.000 LB	BLUE, MATTE		#19 GIFHDLDPPE DBLB FRPVC
1694F G7Y1000	1,000 FT	54.000 LB	WHITE, MATTE	C	#19 GIFHDLDPPE DBLB FRPVC
1694F G7Y5000	5,000 FT	265.000 LB	WHITE, MATTE		#19 GIFHDLDPPE DBLB FRPVC
1694F G8L1000	1,000 FT	54.000 LB	ORANGE, MATTE	C	#19 GIFHDLDPPE DBLB FRPVC
1694F G8L5000	5,000 FT	265.000 LB	ORANGE, MATTE		#19 GIFHDLDPPE DBLB FRPVC
1694F G8M1000	1,000 FT	54.000 LB	YELLOW, MATTE	C	#19 GIFHDLDPPE DBLB FRPVC
1694F G8M5000	5,000 FT	265.000 LB	YELLOW, MATTE		#19 GIFHDLDPPE DBLB FRPVC
1694F Z4B1000	1,000 FT	54.000 LB	VIO Z4B	C	#19 GIFHDLDPPE DBLB FRPVC
1694F Z4B5000	5,000 FT	265.000 LB	VIO Z4B		#19 GIFHDLDPPE DBLB FRPVC

**Notes:**  
C = CRATE REEL PUT-UP.

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