

## 1694D Coax - Dual RG-6/U Type Precision Low Loss Serial Digital Video coax



For more Information  
please call

1-800-Belden1

**General Description:**

Dual RG-6/U type, (2) 18 AWG solid .040" bare copper conductors, gas-injected foam HDPE insulation, Duofoil® plus tinned copper braid shield (95% coverage), inner PVC jackets, overall PVC jacket.

**Usage (Overall)**

Suitable Applications: Video Mult.

**Physical Characteristics (Overall)****Conductor**

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
2	18	Solid	BC - Bare Copper	1.016

Total Number of Conductors: 2

**Insulation**

Insulation Material:

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

**Inner Shield**

Inner Shield Material:

Layer #	Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	95

**Inner Jacket**

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (mm)
PVC - Polyvinyl Chloride	6.985

Inner Jacket Color Code Chart:

Number	Color
1	Red
2	Green

**Outer Jacket**

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

**Overall Cable**

Overall Nominal Diameter: 8.738 x 15.697 mm

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -40°C To +75°C

UL Temperature Rating: 60°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 184.537 Kg/Km

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Max. Recommended Pulling Tension:	787.331 N
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Min. Bend Radius/Minor Axis:	88.900 mm
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## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

NEC/(UL) Specification:	CMR
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CEC/C(UL) Specification:	CMG
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EU Directive 2011/65/EU (ROHS II):	Yes
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EU Directive 2000/53/EC (ELV):	Yes
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EU Directive 2002/95/EC (RoHS):	Yes
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EU RoHS Compliance Date (mm/dd/yyyy):	04/09/2010
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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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RG Type:	6/U
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## Flame Test

UL Flame Test:	UL1666 Vertical Shaft
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## Suitability

Suitability - Indoor:	Yes
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Suitability - Outdoor:	Yes
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## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

## Nom. Characteristic Impedance:

Impedance (Ohm)

75

## Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

53.1522

## Nominal Velocity of Propagation:

VP (%)

82

## Nominal Delay:

Delay (ns/m)

4.06844

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

20.9984

## Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/km)

9.187

## Nom. Attenuation:

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

1.000 0.787

3.580 1.444

5.000 1.706

7.000 2.001

10.000 2.330

## METRIC MEASUREMENT VERSION

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67.500	5.414
71.500	5.545
88.500	6.103
100.000	6.398
135.000	7.349
143.000	7.546
180.000	8.432
270.000	10.401
360.000	12.107
540.000	15.093
720.000	17.652
750.000	18.046
1000.000	21.064
1500.000	26.215
2000.000	30.743
2250.000	32.843
3000.000	38.650
4500.000	51.512

## Max. Operating Voltage - UL:

Voltage
300 V RMS

## Other Electrical Characteristic 1:

Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination.

## Other Electrical Characteristic 2:

Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.

## Minimum Structural Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
5.000	1600.000	23.000
1600.000	4500.000	21.000

## Sweep Test

## Sweep Testing:

Sweep tested 5 MHz to 4.5 GHz.

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1694D 0101000	1,000 FT	131.000 LB	BLACK	C	2 #18 PE SH PVC FRPVC PARA PVC
1694D 010500	500 FT	66.000 LB	BLACK		2 #18 PE SH PVC FRPVC PARA PVC

## Notes:

C = CRATE REEL PUT-UP.

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