



Part Number: 1694D

Serial Digital Coax, Dual RG6, #18 Solid BC, Duofoil® + 95% TC braid, CMR

Product Description

Low Loss Serial Digital Coax, Riser-CMR, 2-RG6 18 AWG solid bare copper conductors, foam HDPE core, Duofoil+95% tinned copper braid, inner PVC jackets, PVC jacket

Product Specifications

AG.Filter Attributes

Total Number of Conductors:	2
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Application

Suitable Applications:	Video Mult.
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Technical Specifications

AG_0401

UL Flammability:	UL1666 Vertical Shaft
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APAC Standard

MII Order #39 (China RoHS):	Yes
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Applicable Patents

Patent:	http://www.belden.com/p
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Bend Radius

Min Bend Radius/Minor Axis:	3.5 in
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CCB-Sub-Part Number

Plenum (Y/N):	No
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Connectors

Suggested Connectors:	Kings2065-10-9 75 Ohm BNC, each coax
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Contact Information

PHONE_NUM:	1-800-Belden1
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EU Directive

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
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EU RoHS Compliance Date (yyyy-mm-dd):	2010-04-09
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General Electrical Parameters

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.
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Other Electrical Characteristic 2:	Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.
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Sweep Testing:	Sweep tested 5 MHz to 4.5 GHz.
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North American Standard

CA Prop 65 (CJ for Wire & Cable):	Yes
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CEC/C(UL) Specification:	CMG
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NEC/(UL) Specification:	CMR
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RG Type:	6/U
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Use

Suitability - Outdoor:	Yes
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Max Recommended Pulling Tension:	177 lbs
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Suitability - Indoor:	Yes
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Impedance:

Nominal Characteristic Impedance
75 Ohm

Conductor DCR:

Nominal Conductor DCR	Nominal Inner Shield DCR
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6.4 Ohm/1000ft	2.8 Ohm/1000ft
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Color Chart 3:

Number	Color
1	Red
2	Green

Delay:

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.24 ns/ft	82 %

Voltage:

UL Voltage Rating
300V RMS V

High Freq:

Min. SRL (Structural Return Loss)
23 dB
21 dB

Innershield:

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum Foil-Polyester Tape-Aluminum Foil		Duofoil® 100 %
Braid	2	TC - Tinned Copper		95 %

PB HD-SDI Coax Table:

Description	Part No.	UL NEC/C(UL) CEC Type	Standard Lengths	Standard Unit Weight	Conductor (stranding) Diameter Norm. DCR	Nominal Core OD	Shielding Materials Nom. DCR	Nominal OD	Nom. Imp ()	Nom. Vel. of Prop.	Nominal Capacitance	Nominal Attenuation		
Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	pF/Ft.	pF/m	MHz	dB/100 Ft.	dB/100m		
Low Loss Serial Digital Coax, Riser-CMR, 2-RG6 18 AWG solid bare copper conductors, foam HDPE core, Duofoil+95% tinned copper braid, inner PVC jackets, PVC jacket														
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SDI/HDTV	NEC: Hard Code	Hard Code	124 lbs/1000ft	Hard Code	18	0.18 in	Hard code	0.344 x 0.618 in	Hard Code	82 %	Hard Code	1 MHz	0.24 dB/100ft	Hard Code
Digital Video				CMR		Solid				3.58 MHz		0.44 dB/100ft		
	CEC				0.04 in					5 MHz		0.52 dB/100ft		
	CMG					BC - Bare Copper				7 MHz		0.61 dB/100ft		

 6.4 Ohm/100ft	 10 MHz	0.71 dB/100ft
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 Hard Code	 1.65 dB/100ft
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Capacitance:

Nom. Capacitance Conductor to Shield

16.2 pF/ft

High Frequency (Nominal/Typical):

Frequency [MHz] Nom. Insertion Loss

1 MHz	0.24 dB/100ft
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3.58 MHz	0.44 dB/100ft
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5 MHz	0.52 dB/100ft
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7 MHz	0.61 dB/100ft
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10 MHz	0.71 dB/100ft
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67.5 MHz	1.65 dB/100ft
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71.5 MHz	1.69 dB/100ft
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88.5 MHz	1.86 dB/100ft
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100 MHz	1.95 dB/100ft
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135 MHz	2.24 dB/100ft
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143 MHz	2.3 dB/100ft
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180 MHz	2.57 dB/100ft
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270 MHz	3.17 dB/100ft
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360 MHz	3.69 dB/100ft
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540 MHz	4.6 dB/100ft
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720 MHz	5.38 dB/100ft
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750 MHz	5.5 dB/100ft
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1000 MHz	6.42 dB/100ft
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1500 MHz	7.99 dB/100ft
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2000 MHz	9.37 dB/100ft
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2250 MHz	10.01 dB/100ft
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3000 MHz	11.78 dB/100ft
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4500 MHz	15.7 dB/100ft
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Innerjacket:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.275 in

Insulation:

Material	Nominal Diameter
Gasinjected FHDPE - Foam High Density Polyethylene	0.18 in

Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.344 x 0.618 in

Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
18	Solid	BC - Bare Copper	0.04 in	2

Other Electrical Information:

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.
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Other Electrical Characteristic 2	Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.
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Sweep Testing	Sweep tested 5 MHz to 4.5 GHz.
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Product Variants

Part Number	Color	Put-Up Type	Length
1694D	BLACK	Reel	1000 ft
1694D	BLACK	Reel	305 m
1694D 0101000	BLACK	Reel	1000 ft
1694D	BLACK	Reel	500 ft
1694D	BLACK	Reel	152 m
1694D 010500	BLACK	Reel	500 ft
1694D			

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