Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



7794A Coax - RG-59/U

For more Information please call

1-800-Belden1



Description:

RG-59/U type, 20 AWG solid .032" bare copper conductors, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), overall PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
3	20	Solid	BC - Bare Copper	.032

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.145

Inner Shield

Inner Shield Material:

Layer # Inner Shield Trade Name Ty		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. (in.)
PVC - Polyvinyl Chloride	.235

Inner Jacket Color Code Chart:

Number	Color
1	Red
2	Green
3	Blue

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 0.631 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-35°C To +75°C
UL Temperature Rating:	60°C
Non-UL Temperature Rating:	75°C
Bulk Cable Weight:	171 lbs/1000 ft.
Max. Recommended Pulling Tension:	216 lbs.
Min. Bend Radius (Install)/Minor Axis:	6.500 in.

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Applicable Standards & Environmental Programs					
NEC/(UL) Specification:	CMR				
CEC/C(UL) Specification:	CMG				
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:	59/U				
lame Test					
UL Flame Test:	UL1666 Vertical Shaft				
uitability					
Suitability - Indoor:	Yes				
Suitability - Outdoor:	Yes				
lenum/Non-Plenum					
Plenum (Y/N):	No				

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:



Nom. Inner Shield DC Resistance:



Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)	
1	0.3	
3.6	0.6	
10	0.9	

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71.5	2.1
135	2.7
270	3.8
360	4.4
540	5.5
720	6.4
750	6.5
1000	7.6
1500	9.4
2500	12.4
3000	13.8

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 Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5	820	23
820	3000	15

Sweep Test

Sweep Testing: Sweep tested 5 MHz to 3 GHz.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7794A B591000	1,000 FT	187.000 LB	BLACK, MATTE	С	3 #20 PE/GIFHDPE SH FRPVC PVC
7794A B59500	500 FT	94.500 LB	BLACK, MATTE	С	3 #20 PE/GIFHDPE SH FRPVC PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 09-30-2009

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