

7794A Coax - RG-59/U

 	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p>
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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:

CONDUCTOR:

Number of Coax	3
Total Number of Conductors	3
RG Type	59/U
AWG	20
Stranding	Solid
Conductor Diameter	.032 in.
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	Gas-injected FHDPE - Foam High Density Polyethylene
Insulation Diameter	.145 in.

INNER SHIELD:

Inner Shield Material Trade Name	Duofoil®
Inner Shield Type	Tape/Braid

Inner Shield Material :

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

Inner Shield % Coverage	100 %
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INNER JACKET:

Inner Jacket Material	PVC - Polyvinyl Chloride
Inner Jacket Diameter	.235 in.

Inner Jacket Color Code Chart :

Number	Color
1	Red
2	Green
3	Blue

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OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.631 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-35°C To +75°C
UL Temperature Rating	60°C
Non-UL Temperature Rating	75°C
Bulk Cable Weight	169 lbs/1000 ft.
Max. Recommended Pulling Tension	216 lbs.
Min. Bend Radius (Install)	6.5 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMR
CEC/C(UL) Specification	CMG
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004

FLAME TEST:

UL Flame Test	UL1666 Vertical Shaft
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SWEEP TEST:

Sweep Testing	Sweep tested 5 MHz to 3 GHz.
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SUITABILITY:

Suitability - Indoor	Yes
Suitability - Outdoor	Yes
Suggested Connectors	Kings 2065-2-9 75 Ohm BNC, each coax

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	75 Ohms
Nom. Inductance	0.107 µH/ft
Nom. Capacitance Conductor to Shield	16.2 pF/ft
Nominal Velocity of Propagation	83 %
Nominal Delay	1.22 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	10.0 Ohms/1000 ft
Nom. Inner Shield DC Resistance	3.8 Ohms/1000 ft

Detailed Specifications & Technical Data



7794A Coax - RG-59/U

Minimum Return Loss :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum Return Loss (dB)
		5	820	23
		820	3000	15

Nom. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	1			0.3
	3.6			0.6
	10			0.9
	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

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.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
7794A B59500	3 #20 PE/GIFHDPE SH FRPVC PVC	500	94.5	BLACK, MATTE	C
7794A B591000	3 #20 PE/GIFHDPE SH FRPVC PVC	1000	187	BLACK, MATTE	C

C = CRATE REEL PUT-UP.

Revision Number: 2

Revision Date: 09-08-2006

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