## **Detailed Specifications & Technical Data**

### **ENGLISH MEASUREMENT VERSION**



7795A Coax - RG-59/U

For more Information please call

1-800-Belden1



## **General 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.)
4	20	Solid	BC - Bare Copper	.032

Total Number of Conductors:

#### Insulation

### Insulation Material:

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

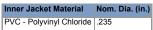
### **Inner Shield**

### Inner Shield Material:

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

## Inner Jacket

### Inner Jacket Material:



## Inner Jacket Color Code Chart:

Number	Color
1	Red
2	Green
3	Blue
4	White

### **Outer Jacket**

## Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

### **Overall Cable**

Overall Nominal Diameter: 0.706 in.

# Mechanical Characteristics (Overall) Operating Temperature Range:

Operating Temperature Range:	-35°C To +75°C
UL Temperature Rating:	60°C
Non-UL Temperature Rating:	75°C
Bulk Cable Weight:	215 lbs/1000 ft.
Max. Recommended Pulling Tension:	288 lbs.
Min. Bend Radius/Minor Axis:	7 in.

## **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

Page 1 of 3 01-05-2017

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## 7795A Coax - RG-59/U

	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
Fla	me Test	
	UL Flame Test:	UL1666 Vertical Shaft
Sui	tability	
	Suitability - Indoor:	Yes
	Suitability - Outdoor:	Yes
Ple	num/Non-Plenum	
	Plenum (Y/N):	No

## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



Nominal Velocity of Propagation:

**VP (%)** 83

Nominal Delay:

Delay (ns/ft) 1.22

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 10.0

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 3.8

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1.000	0.300
3.600	0.600
10.000	0.900
71.500	2.100
135.000	2.700
270.000	3.800
360.000	4.400
540.000	5.500
720.000	6.400
750.000	6.500
1000.000	7.600
1500.000	9.400
2500.000	12.400
3000.000	13.800
4500.000	18.000

Max. Operating Voltage - UL:



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.

Page 2 of 3 01-05-2017

## **Detailed Specifications & Technical Data**

### **ENGLISH MEASUREMENT VERSION**



### 7795A Coax - RG-59/U

Other Electrical Characteristic 2:

Return Loss Tested in Accordance With ASTM D-4566 Paragraph 45.3, Using a 75 Ohm Fixed Bridge and

### Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (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
7795A B591000	1,000 FT	230.000 LB	BLACK, MATTE	С	4 #20 PE/GIFHDPE SH FRPVC PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 05-01-2013

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product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

Page 3 of 3

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