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1-800-Belden1

## Description

RG-59/U Type Plenum RGB coaxial cable, 3 coaxes. Each coax 22 AWG (7x30) bare copper, Foam FEP core, Duofoil® + 95% tinned copper braid, fluorocopolymer jacket; overall Beldfoil® and Flamarrest® jacket.

## Physical Characteristics (Overall):

### Conductor:

AWG

# Coax	AWG	Stranding	Conductor Material	Dia. (in. )
3	22	7x30	BC - Bare Copper	0.030

Total Number of Conductors 3

### Insulation:

Insulation Material

Ins Trade Name	Ins Material	Dia. (in. )
Teflon®	FFEP - Foam Fluorinated Ethylene Propylene	0.135

### Inner Shield:

Inner Shield Material

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

### Inner Jacket:

Inner Jacket Material

Inner Jacket Material	Nom. Dia. (in. )
Fluoropolymer	0.200

Inner Jacket Color Code Chart

Number	Color
1	Red
2	Green
3	Blue

### Outer Shield:

Outer Shield Material

Outer Shield Trade Name	Type	Outer Shield Material	% Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire AWG

AWG	Stranding	Drain Wire Conductor Material
22	7x30	TC - Tinned Copper

### Outer Jacket:

Outer Jacket Material

Outer Jacket Trade Name	Outer Jacket Material
Flamarrest®	FA - Flamarrest®

### Overall Cabling:

Overall Nominal Diameter: 0.475 in.

## Mechanical Characteristics (Overall):

Operating Temperature Range	-0°C To +75°C
Non-UL Temperature Rating	60°C
Bulk Cable Weight:	92 lbs/1000 ft.
Max. Recommended Pulling Tension:	195 lbs.
Min. Bend Radius (Install):	5 in.

## Applicable Specifications and Agency Compliance (Overall):

### Applicable Standards:

## ENGLISH MEASUREMENT VERSION

## 1824A Coax - RGB and SVHS Cable

NEC/(UL) Specification CIMP

RG Type 59/U

**Flame Test:**

UL Flame Test 910 Steiner Tunnel

**Plenum/Non-Plenum:**

Plenum (Y/N) Y

**Electrical Characteristics (Overall):**

Nom. Characteristic Impedance

Impedance (Ohm)
75

Nom. Capacitance Conductor to Shield

Capacitance (pF/ft)
17.300

Nominal Velocity of Propagation

VP (%)
81

Nominal Delay

Delay (ns/ft)
1.260

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
15.300

Nom. Inner Shield DC Resistance

Description	DCR @ 20°C (Ohm/1000 ft)
Each Coax	2.500

Nom. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
Nominal Attenuation	1.000			0.300
	5.000			0.600
	10.000			0.800
	30.000			1.500
	50.000			1.900
	100.000			2.900
	200.000			4.300
	400.000			6.600
	700.000			9.400
	900.000			11.100
	1000.000			11.900

Max. Operating Voltage - UL

Voltage
300 V RMS

Minimum Structural Return Loss

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
Minimum Structural Return Loss		10.000	40.000	25.000

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
11.100

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