

**7805R Coax - RG-174 Type**



For more Information  
please call  
  
1-800-Belden1



**Description**

RG-174 type, 24.5 AWG solid .020" bare copper conductor, foam HDPE insulation, Beldfoil® + tinned copper braid shield (93% coverage), PVC jacket.

**Physical Characteristics (Overall):**

**Conductor:**

AWG

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	24.500	Solid	BC - Bare Copper	0.020

**Insulation:**

Insulation Material

Insulation Material	Dia. (in.)
FHDPE - Foam High Density Polyethylene	0.060

**Outer Shield:**

Outer Shield Material

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	93

**Outer Jacket:**

Outer Jacket Material

Outer Jacket Material
PVC - Polyvinyl Chloride

**Overall Cabling:**

Overall Nominal Diameter: .110 in.

**Mechanical Characteristics (Overall):**

Operating Temperature Range -40°C To +75°C

UL Temperature Rating 80°C

Bulk Cable Weight: 10 lbs/1000 ft.

Max. Recommended Pulling Tension: 20 lbs.

Min. Bend Radius (Install)/Minor Axis: 0.250 in.

**Applicable Specifications and Agency Compliance (Overall):**

**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

RG Type 174/U

Series Type RF 100

**Flame Test:**

UL Flame Test UL1666 Riser

CSA Flame Test FT4

**Suitability:**

Suitability - Indoor Yes

Suitability - Outdoor Yes

Suitability - Aerial Yes - When supported by a messenger

**Plenum/Non-Plenum:**

Plenum (Y/N) N

**Electrical Characteristics (Overall):**

Nom. Characteristic Impedance

Impedance (Ohm)
50.000

Nom. Inductance

Inductance (µH/ft)
0.068

Nom. Capacitance Conductor to Shield

Capacitance (pF/ft)
26.200

Nominal Velocity of Propagation

VP (%)
73.500

Nominal Delay

Delay (ns/ft)
1.380

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
27.300

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
9.300

Maximum VSWR

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Max. VSWR
		5.000	6000.000	1.25:1

Nom. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	30.000			3.500
	50.000			4.600
	150.000			8.000
	220.000			9.600
	450.000			14.000
	900.000			20.200
	1500.000			26.600
	1800.000			29.500
	2000.000			31.200
	2500.000			35.400
	3000.000			39.400
	3500.000			43.000
	4500.000			50.000
	5800.000			59.000
	6000.000			60.600

Nom. Power Rating

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Rating (W)
	30.000			216.000

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	50.000			154.000
	150.000			74.000
	220.000			57.000
	450.000			34.000
	900.000			21.000
	1500.000			14.000
	1800.000			13.000
	2000.000			12.000
	2500.000			10.000
	3000.000			9.000
	3500.000			8.000
	4500.000			7.000
	5800.000			5.000
	6000.000			5.000

Max. Operating Voltage - UL

<b>Voltage</b>
300 V RMS

**Notes (Overall):**

Notes 100% Sweep tested. 6 GHz. Max. Belden® The Wire in Wireless®

**PUT UPS AND COLORS:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7805R 008100	100 FT	1.700 LB	GRAY	E	RF100LL WIRELESS 50 OHM COAX GRY
7805R 0081000	1,000 FT	10.000 LB	GRAY		RF100LL WIRELESS 50 OHM COAX GRY
7805R 008500	500 FT	5.500 LB	GRAY		RF100LL WIRELESS 50 OHM COAX GRY

**Notes:**

E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'

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