



**Part Number: 7805**

**RF 100 Wireless Coax, RG174, #25**

**Product Description**

RG-174 type, 25 AWG solid .018" bare copper conductor, solid polyethylene insulation, Beldfoil®; tinned copper braid shield (90% coverage), PVC jacket.

**Technical Specifications**

**Product Overview**

Environmental Space:	Indoor (Not Riser or Plenum)
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**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	Nominal Diameter	No. of Coax
25	Solid	BC - Bare Copper	0.018 in	1

Conductor Count:	1
Conductor Size:	25 AWG

**Insulation**

Material	Nominal Diameter
PE - Polyethylene	0.061 in

**Outer Shield Material**

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester	Beldfoil®	100 %
Braid	2	TC - Tinned Copper		90 %

**Outer Jacket Material**

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.11 in

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR	Nominal Conductor DCR	Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
32 Ohm/1000ft	32 Ohm/1000ft		9.1 Ohm/1000ft	9.1 Ohm/1000ft

**Capacitance**

Nom. Capacitance Conductor to Shield
31.2 pF/ft

**Inductance**

Nominal Inductance
0.077 µH/ft

**Impedance**

Nominal Characteristic Impedance
50 Ohm

### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	1.5 dB/100ft
10 MHz	2.2 dB/100ft
30 MHz	3.8 dB/100ft
50 MHz	4.9 dB/100ft
150 MHz	8.6 dB/100ft
220 MHz	10.4 dB/100ft
450 MHz	15.2 dB/100ft
900 MHz	22 dB/100ft
1500 MHz	28.7 dB/100ft
1800 MHz	31.7 dB/100ft
2000 MHz	33.4 dB/100ft
2500 MHz	37.8 dB/100ft
3000 MHz	42 dB/100ft
3500 MHz	45.4 dB/100ft
4500 MHz	52.3 dB/100ft
5800 MHz	60.9 dB/100ft
6000 MHz	62 dB/100ft

### Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.54 ns/ft	66 %

### Power Rating

Frequency [MHz]	Max. Power Rating [W]	Nominal Power Rating [W]
30 MHz	216 W	216 W
50 MHz	154 W	154 W
150 MHz	74 W	74 W
220 MHz	48 W	57 W
450 MHz	34 W	34 W
900 MHz	21 W	21 W
1,500 MHz	14 W	14 W
2,000 MHz	12 W	13 W
2,500 MHz	10 W	12 W
3,500 MHz	8 W	10 W
4,500 MHz	7 W	9 W
6,000 MHz	5 W	8 W
4,500 MHz		7 W
5,800 MHz		5 W
6,000 MHz		5 W

### Voltage

Non-UL Voltage Rating
1100 V RMS

### VSWR

Frequency [MHz]	Max. VSWR
5-6000 MHz	1.25:1

### Temperature Range

Non-UL Temp Rating:	80°C
Operating Temp Range:	-40°C To +80°C

### Mechanical Characteristics

Bulk Cable Weight:	9 lbs/1000ft
Max Recommended Pulling Tension:	16 lbs
Min Bend Radius/Minor Axis:	1.25 in

### Standards

RG Type:	174/U Type
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## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Indoor:	Yes
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## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Part Number

### Variants

Item #	Color	Footnote
7805 010100	Black	E
7805 0101000	Black	
7805 010500	Black	

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