

7805 Coax - RG-174 Type



Description

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

Physical Characteristics (Overall):

Conductor:

AWG

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	25	Solid	BC - Bare Copper	0.018

Insulation:

Insulation Material

Insulation Material	Dia. (in.)
PE - Polyethylene	0.061

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	90

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

Non-UL Temperature Rating 80°C

Bulk Cable Weight: 9 lbs/1000 ft.

Max. Recommended Pulling Tension: 16 lbs.

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

Applicable Specifications and Agency Compliance (Overall):

Applicable Standards:

EU CE Mark (Y/N) No

EU RoHS Compliant (Y/N) Yes

EU RoHS Compliance Date (mm/dd/yyyy) 01/01/2004

RG Type 174/U

Series Type RF 100

Suitability:

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)
0.077

Nom. Capacitance Conductor to Shield

Capacitance (pF/ft)
31.200

Nominal Velocity of Propagation

VP (%)
66

Nominal Delay

Delay (ns/ft)
1.540

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
32.000

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
9.100

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			3.800
	50.000			4.900
	150.000			8.600
	220.000			10.400
	450.000			15.200
	900.000			22.000
	1500.000			28.700
	1800.000			31.700
	2000.000			33.400
	2500.000			37.800
	3000.000			42.000
	3500.000			45.400
	4500.000			52.300
	5800.000			60.900
	6000.000			62.000

Nom. Power Rating

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

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		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 - Non-UL

Voltage
1100 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
7805 010100	100 FT	1.700 LB	BLACK	E	RF100 WIRELESS 50 OHM COAX PVCBLK
7805 0101000	1,000 FT	10.000 LB	BLACK		RF100 WIRELESS 50 OHM COAX PVCBLK
7805 010500	500 FT	5.500 LB	BLACK		RF100 WIRELESS 50 OHM COAX PVCBLK

Notes:

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

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