

For more Information
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1-800-Belden1



General Description:

RG-174 type, 24.5 AWG solid .020" bare copper conductor, foam HDPE insulation, Beldfoil® + tinned copper braid shield (90% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	24.5	Solid	BC - Bare Copper	.0195

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
FHDPE - Foam High Density Polyethylene	.060

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100.000
2		Braid	TC - Tinned Copper	90.000

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 0.110 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +80°C

UL Temperature Rating: 60°C

Bulk Cable Weight: 9 lbs/1000 ft.

Max. Recommended Pulling Tension: 20 lbs.

Min. Bend Radius/Minor Axis: 1.250 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

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: 174/U

Series Type: RF 100

Flame Test

UL Flame Test:	UL1666 Vertical Shaft
CSA Flame Test:	FT4

Suitability

Suitability - Indoor:	Yes
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
50

Nom. Inductance:

Inductance (µH/ft)
.068

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
26.2

Nominal Velocity of Propagation:

VP (%)
73.5

Nominal Delay:

Delay (ns/ft)
1.38

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
27.3

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
9.3

Maximum VSWR:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Max. VSWR
		5	6000	1.25:1

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
5.000	1.400
10.000	2.000
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:

Freq. (MHz)	Rating (W)
30	216
50	154
150	74
220	57
450	34
900	21
1500	14
1800	13

2000	12
2500	10
3000	9
3500	8
4500	7
5800	5
6000	5

Max. Operating Voltage - UL:

Voltage
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
7805R 0081000	1,000 FT	10.000 LB	GRAY		RF100LL WIRELESS 50 OHM COAX
7805R 008500	500 FT	5.500 LB	GRAY		RF100LL WIRELESS 50 OHM COAX

Notes:

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

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