Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

7805R Coax - RG-174 Type

For more Information please call

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. (mm)
1	24.5	Solid	BC - Bare Copper	0.4953

Total Number of Conductors:	1

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
FHDPE - Foam High Density Polyethylene	1.524

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:	2.794 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +80°C
UL Temperature Rating:	60°C
Bulk Cable Weight:	13.394 Kg/Km
Max. Recommended Pulling Tension:	88.964 N
Min. Bend Radius/Minor Axis:	31.750 mm

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

Plenum/Non-Plenum

Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
50

Nom. Inductance:

Inductance (µH/m)
0.223108

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
85.9622

Nominal Velocity of Propagation:

VP (%)
73.5

Nominal Delay:

Delay (ns/m)
4.52778

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
89.5713

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
30.5133

Maximum VSWR:

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

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
5.000	4.593
10.000	6.562
30.000	11.484
50.000	15.093
150.000	26.248
220.000	31.498
450.000	45.934
900.000	66.276
1500.000	87.275
1800.000	96.790
2000.000	102.367
2500.000	116.147
3000.000	129.271
3500.000	141.083
4500.000	164.050
5800.000	193.579
6000.000	198.829

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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