

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

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
2		Braid	TC - Tinned Copper	93

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cabling

Overall Nominal Diameter: 2.794 mm

Mechanical Characteristics (Overall)

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

UL Temperature Rating: 80°C

Bulk Cable Weight: 14.882 Kg/Km

Max. Recommended Pulling Tension: 88.964 N

Min. Bend Radius (Install)/Minor Axis: 6.350 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

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 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):	No
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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)
30	11.4835
50	15.0926
150	26.248
220	31.4976
450	45.934
900	66.2762
1500	87.2746
1800	96.7895
2000	102.367

2500	116.147
3000	129.271
3500	141.083
4500	164.05
5800	193.579
6000	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®

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7805R 008100	30 MT	0.771 KG	GRAY	E	RF100LL WIRELESS 50 OHM COAX
7805R 0081000	305 MT	4.536 KG	GRAY		RF100LL WIRELESS 50 OHM COAX
7805R 008500	152 MT	2.495 KG	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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