



7805R

Part Number: 7805R

RG-174 Type

Product Description

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

Product Specifications

Conductor

Total Number of Conductors:

1

Technical Specifications

APAC Standard

Mil Order #39 (China RoHS):

Yes

Bend Radius

Min Bend Radius/Minor Axis:

1.25 in

CCB-Part Number

Notes:

100% Sweep tested. 6 GHz. Max. Belden® The Wire in Wireless®

CCB-Sub-Part Number

Plenum (Y/N):

No

Connectors

Suggested Connectors:

Mates with standard RG-174 connectors.

Contact Information

PHONE_NUM:	1-800-Belden1
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EMEA Standard

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
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Environmental Characteristics

Operating Temp Range:	-40°C To +80°C
Suitability - Indoor:	Yes

EU Directive

EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01

North American Standard

CA Prop 65 (CJ for Wire & Cable):	Yes
CEC/C(UL) Specification:	CMG
NEC/(UL) Specification:	CMR
RG Type:	174/U
Series Type:	RF 100

Safety

UL Flammability:	UL1666 Vertical Shaft
CSA Flammability:	FT4

Temperature Range

UL Temp Rating:	60°C
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Use

Max Recommended Pulling Tension:	20 lbs
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Impedance:

Nominal Characteristic Impedance

50 Ohm

Inductance:

Nominal Inductance

0.068 μ H/ft

Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
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27.3 Ohm/1000ft	9.3 Ohm/1000ft
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Power Rating:

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

Nominal Delay	Nominal Velocity of Propagation (VP)
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1.38 ns/ft	73.5 %
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Voltage:

UL Voltage Rating

300V RMS

VSWR:

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

Capacitance:**Nominal Capacitance Conductor to Shield**

26.2 pF/ft

High Frequency (Nominal/Typical):

Frequency (MHz)	Nom. Insertion Loss
5 MHz	1.4 db/100ft
10 MHz	2 db/100ft
30 MHz	3.5 db/100ft
50 MHz	4.6 db/100ft
150 MHz	8 db/100ft
220 MHz	9.6 db/100ft
450 MHz	14 db/100ft
900 MHz	20.2 db/100ft
1500 MHz	26.6 db/100ft
1800 MHz	29.5 db/100ft
2000 MHz	31.2 db/100ft
2500 MHz	35.4 db/100ft
3000 MHz	39.4 db/100ft
3500 MHz	43 db/100ft
4500 MHz	50 db/100ft
5800 MHz	59 db/100ft

6000 MHz	60.6 db/100ft
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Insulation:

Material	Nominal Diameter
FHDPE - Foam High Density Polyethylene	0.06 in

Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.11 in

Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
24.5	Solid	BC - Bare Copper	0.0195 in	1

Outershield 1:

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

Product Variants

Part Number	Color	Put-Up Type	Length
7805R 0081000	GRAY	Reel	1000 ft
7805R 008100	GRAY	Reel	100 ft
7805R 008500	GRAY	Reel	500 ft

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