




7805R Coax - Low Loss 50 Ohm Wireless RF Transmission Cable

	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p>
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Description:

24.5 AWG solid .0195" bare copper conductor, foam high density polyethylene insulation, Beldfoil® and a 90% tinned copper braid shield, PVC jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
RG Type	174/U
Series Type	RF 100
AWG	24.5
Stranding	Solid
Conductor Diameter	.0195 in.
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	FHDPE - Foam High Density Polyethylene
Insulation Diameter	.060 in.

OUTER SHIELD:

Outer Shield Type	Tape/Braid
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Outer Shield Material :

Layer Number	Trade Name	Type	Material	% Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	93

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.110 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-40°C To +75°C
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UL Temperature Rating	80°C
Bulk Cable Weight	10 lbs/1000 ft.
Max. Recommended Pulling Tension	20 lbs.
Min. Bend Radius (Install)	0.25 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMR
CEC/C(UL) Specification	CMG

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
Suggested Connectors	Mates with standard RG-174 connectors.

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	50 Ohms
Nom. Inductance	.068 µH/ft
Nom. Capacitance Conductor to Shield	26.2 pF/ft
Nominal Velocity of Propagation	73.5 %
Nominal Delay	1.38 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	27.3 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20°C	9.3 Ohms/1000 ft

Maximum VSWR :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Maximum VSWR
		5	6000	1.25:1

Nom. Attenuation :



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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	30			3.5
	50			4.6
	150			8.0
	220			9.6
	450			14.0
	900			20.2
	1500			26.6
	1800			29.5
	2000			31.2
	2500			35.4
	3000			39.4
	3500			43.0
	4500			50.0
	5800			59.0
	6000			60.6

Nom. Power Rating :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Power 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 300 V RMS

NOTES:

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

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
7805R 008100	RF100LL WIRELESS 50 OHM COAX	100	1.8	GRAY	E



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7805R 0081000	RF100LL WIRELESS 50 OHM COAX	1000	10	GRAY	
7805R 008500	RF100LL WIRELESS 50 OHM COAX	500	5.5	GRAY	

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

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