

## RG214 RGFLEX™ Coax Braided Cable

## Product Description

## • RG series

Braided outer coaxial cable (50- and 75-ohm), for general radio station, RF jumper, cable TV, closed-circuit (CCTV) and head-end applications.

Application: OEM jumpers, BTS inter-cabinet connections, GPS lines, Microwave IF cabling



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## Features/Benefits

## Technical Features

## Structure

Inner conductor:	Stranded Silver Plated Wire 7x0.75mm (7x0.03in)	[mm (in)]	2.25 (0.089)
Dielectric:		[mm (in)]	7.28 (0.287)
Outer conductor:	1st shield: Silver plated copper braid with 93% of coverage; 2nd shield: Silver plated copper braid with 95% of coverage	[mm (in)]	8.7 (0.343)
Jacket:	Polyvinyl Chloride, PVC	[mm (in)]	10.8 (0.425)

## Mechanical Properties

Weight, approximately	[kg/m (lb/ft)]	0.185 (0.124)
Minimum bending radius, single bending	[mm (in)]	55.0 (2.165)
Minimum bending radius, repeated bending	[mm (in)]	110 (4.33)
Bending moment	[Nm (lb-ft)]	
Max. tensile force	[N (lb)]	
Recommended / maximum clamp spacing	[m (ft)]	

## Electrical Properties

Characteristic impedance	[Ω]	50 +/- 2
Relative propagation velocity	[%]	66
Capacitance	[pF/m (pF/ft)]	101 (30.8)
Inductance	[μH/m (μH/ft)]	0.253 (0.077)
Max. operating frequency	[GHz]	6.0
Jacket spark test RMS	[V]	
Peak power rating	[kW]	
RF Peak voltage rating	[V]	
DC-resistance inner conductor	[Ω/km (Ω/1000ft)]	5.67 (1.73)
DC-resistance outer conductor	[Ω/km (Ω/1000ft)]	

## Recommended Temperature Range

Storage temperature	[°C (°F)]	-50 to +85 (-58 to +185)
Installation temperature	[°C (°F)]	-20 to +60 (-4 to +140)
Operation temperature	[°C (°F)]	-40 to +85 (-40 to +185)

## Other Characteristics

Fire Performance: Flame Retardant

VSWR Performance: [dB (VSWR)]

Other Options:

Frequency f [MHz]	Attenuation	
	a [dB/100m]	a [dB/100ft]
300	12.0	3.66
600	19.0	5.79
900	24.0	7.31
1200	29.0	8.84
1500	33.0	10.1
1800	37.0	11.3
2100	41.0	12.5
2400	45.0	13.7
2700	49.0	14.9
3000	52.0	15.8
3300	56.0	17.1
3600	60.0	18.3
3900	63.0	19.2
4200	66.0	20.1
4500	70.0	21.3
4800	73.0	22.2
5100	76.0	23.2
5400	79.0	24.1
5700	83.0	25.3
6000	86.0	26.2

Attenuation at 20°C (68°F) cable temperature