

RG223 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



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Features/Benefits

Technical Features

Structure

Inner conductor:	Silver Plated Copper-Wire	[mm (in)]	0.89 (0.035)
Dielectric:		[mm (in)]	2.95 (0.116)
Outer conductor:	1st shield: Silver plated copper braid with 96% of coverage; 2nd shield: Silver plated copper braid with 92% of coverage	[mm (in)]	3.96 (0.156)
Jacket:	Polyvinyl Chloride, PVC	[mm (in)]	5.4 (0.213)

Mechanical Properties

Weight, approximately	[kg/m (lb/ft)]	0.055 (0.037)
Minimum bending radius, single bending	[mm (in)]	25 (0.98)
Minimum bending radius, repeated bending	[mm (in)]	100 (3.94)
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)]	26 (7.92)
DC-resistance outer conductor	[Ω/km (Ω/1000ft)]	5.5 (1.67)

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 [MHz]	Attenuation	
	[dB/100m]	[dB/100ft]
300	24.8	7.56
600	36.4	11.1
900	45.9	14.0
1200	54.3	16.5
1500	61.9	18.9
1800	69.0	21.0
2100	75.7	23.1
2400	82.2	25.0
2700	88.3	26.9
3000	94.3	28.7
3300	100	30.5
3600	106	32.2
3900	111	33.9
4200	117	35.5
4500	122	37.2
4800	127	38.7
5100	132	40.3
5400	137	41.8
5700	142	43.3
6000	147	44.8

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