



RG58 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:	Stranded Tinned Wire 19x0.18mm (19x0.007in)	[mm (in)]	0.9 (0.035)
Dielectric:		[mm (in)]	2.9 (0.11)
Outer conductor:	Tinned copper braid with 96% of coverage	[mm (in)]	3.55 (0.14)
Jacket:	Polyvinyl Chloride, PVC	[mm (in)]	5.0 (0.197)

Mechanical Properties

Weight, approximately		[kg/m (lb/ft)]	0.037 (0.024)
Minimum bending radius, single bending		[mm (in)]	25.4 (1)
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]	2.4
Jacket spark test RMS		[V]	
Peak power rating		[kW]	
RF Peak voltage rating		[V]	
DC-resistance inner conductor		[Ω/km (Ω/1000ft)]	39 (11.89)
DC-resistance outer conductor		[Ω/km (Ω/1000ft)]	15 (4.6)

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]
0.5	1.30	0.396
1.0	1.60	0.488
5.0	3.40	1.04
10	4.80	1.46
20	6.80	2.07
30	8.50	2.59
50	10.9	3.32
88	14.7	4.48
100	15.6	4.75
108	16.2	4.94
150	19.2	5.85
174	22.4	6.83
200	24.0	7.32
300	29.0	8.84
400	34.0	10.4
450	36.2	11.0
500	40.0	12.2
512	40.5	12.3
600	42.8	13.0
700	49.0	14.9
800	50.0	15.2
824	51.0	15.5
894	56.8	17.3
900	57.0	17.4
925	58.6	17.9
960	59.0	18.0
1000	61.0	18.6
1250	70.0	21.3
1500	80.4	24.5
1700	89.4	27.2
1800	92.0	28.0
2000	100	30.5
2400	116	35.4

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

All information contained in the present datasheet is subject to confirmation at time of ordering