

## 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:



RG58 RGFLEX™ Coax Braided Cable

## Features/Benefits

## Technical Features

## Structure

Cable Type	PE-Dielectric, Braid Shield		
Size:	9/64"		
Inner conductor:	Stranded Tinned Wire 19x0.18mm (19x0.007in)	[mm (in)]	0.9 (0.035)
Dielectric:	Solid Polyethylene	[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)
Jacket Color			

## 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)

## 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
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

Other Options:

Frequency [ MHz ]	Attenuation		av. nom. Power
	[ 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  
Av. nom. Power at 40°C (104°F) cable temperature