RFS

RG213 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

RG213 RGFLEX™ Coax Braided Cable

Features/Benefits

Technical Features

Structure

Cable Type	PE-Dielectric, Braid Shield		
Size:	5/16"		
Inner conductor:	Stranded Copper Wire 7x0.75mm (7x0.03in)	[mm (in)]	2.26 (0.09)
Dielectric:	Solid Polyethylene	[mm (in)]	7.25 (0.29)
Outer conductor:	Tinned copper braid with 96% of coverage	[mm (in)]	8.11 (0.32)
Jacket:	Polyvinyl Chloride, PVC	[mm (in)]	10.31 (0.41)
Jacket Color			

Mechanical Properties

Weight, approximately	[kg/m (lb/ft)]	0.155 (0.104)
Minimum bending radius, single bending	[mm (in)]	50 (1.97)
Minimum bending radius, repeated bending	[mm (in)]	205 (8.07)

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)]	5.8 (1.77)
DC-resistance outer conductor	[Ω/km (Ω/1000ft)]	4.1 (1.25)

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	Attenuation		av. nom. Power
[MHz]	[dB/100m]	[dB/100ft]	[kW]
0.5	0.45	0.122	19
1.0	0.63	0.183	13
1.5	0.77	0.457	10
10	2.00	0.61	3.7
30	3.60	1.10	3.3
50	4.60	1.40	2
100	6.90	2.07	1
200	10.20	3.11	0.67
400	15.20	4.42	0.43
600	18.10	5.61	0.35
800	23.00	7.01	0.27
1000	27.30	7.86	0.23
2000	40.00	12.80	0.13

Attenuation at 20°C (68°F) cable temperature
Av. nom. Power at 40°C (104°F) cable temperature