



RGC213 RGFLEX™ Foam-Dielectric Coax Braided Cable

**Product Description**

• RGC series

DUAL SHIELDED (aluminium foil plus tinned copper braid shield), TRISHIELD (aluminium foil plus tinned copper braid shield plus aluminium foil) and QUADSHIELD (aluminium foil plus tinned copper braid shield plus aluminium foil plus tinned copper braid) coaxial cable in 50- and 75-ohm variants, for broadband, Internet service provider, rural telephony and satellite communication applications

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



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**Features/Benefits**

**Technical Features**

**Structure**

Inner conductor:	Copper Wire	[mm (in)]	2.55 (0.100)
Dielectric:		[mm (in)]	7.25 (0.285)
Outer conductor:	1st shield: Al/PET foil bonded to the core with 100% of coverage; 2nd shield: Tinned copper braid with 78% of coverage	[mm (in)]	8.14 (0.320)
Jacket:	Polyethylene, PE	[mm (in)]	10.34 (0.407)

**Mechanical Properties**

Weight, approximately		[kg/m (lb/ft)]	0.120 (0.081)
Minimum bending radius, single bending		[mm (in)]	50.0 (1.97)
Minimum bending radius, repeated bending		[mm (in)]	205 (8.07)
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		[%]	80
Capacitance		[pF/m (pF/ft)]	82 (25.0)
Inductance		[μH/m (μH/ft)]	0.205 (0.062)
Max. operating frequency		[GHz]	3.0
Jacket spark test RMS		[V]	
Peak power rating		[kW]	
RF Peak voltage rating		[V]	
DC-resistance inner conductor		[Ω/km (Ω/1000ft)]	3.5 (1.06)
DC-resistance outer conductor		[Ω/km (Ω/1000ft)]	8.0 (2.43)

**Recommended Temperature Range**

Storage temperature		[°C (°F)]	-70 to +85 (-94 to +185)
Installation temperature		[°C (°F)]	-40 to +85 (-40 to +185)
Operation temperature		[°C (°F)]	-50 to +85 (-58 to +185)

**Other Characteristics**

Fire Performance: Halogene Free

VSWR Performance: [dB (VSWR)]

Other Options:

Frequency [ MHz ]	Attenuation	
	[ dB/100m ]	[ dB/100ft ]
0.5	0.555	0.169
1.0	0.784	0.239
1.5	0.841	0.256
2.0	0.971	0.296
10	1.57	0.479
20	2.05	0.625
30	2.38	0.725
50	2.97	0.905
88	3.86	1.18
100	4.15	1.26
108	4.34	1.32
150	5.20	1.58
174	5.63	1.72
200	6.10	1.86
300	7.63	2.33
400	8.96	2.73
450	9.53	2.90
500	10.0	3.05
512	10.2	3.11
600	11.2	3.41
700	12.2	3.72
800	13.2	4.02
824	13.4	4.08
894	13.9	4.24
900	14.0	4.27
925	14.3	4.36
960	14.6	4.45
1000	14.9	4.54
1250	16.9	5.15
1500	18.8	5.73
1700	20.2	6.16
1800	20.9	6.37
2000	22.3	6.80
2200	23.8	7.25
2300	23.9	7.28
3000	27.0	8.23

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

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