RGC8 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, rual telephony
  and satelite 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)]	2.74 (0.108)
Dielectric:		[mm (in)]	7.37 (0.290)
Outer conductor:	1st shield: Al/PET foil bonded to the core with 100% of coverage; 2nd shield: Tinned copper braid with 77% of coverage	[mm (in)]	8.13 (0.320)
Jacket:	Polyethylene, PE	[mm (in)]	10.24 (0.403)

Mechanical Properties

Weight, approximately	[kg/m (lb/ft)]	0.133 (0.089)
Minimum bending radius, single bending	[mm (in)]	25.4 (1)
Minimum bending radius, repeated bending	[mm (in)]	60 (2.36)
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	[%]	85
Capacitance	[pF/m (pF/ft)]	78 (23.8)
Inductance	[µH/m (µH/ft)]	0.195 (0.059)
Max. operating frequency	[GHz]	16
Jacket spark test RMS	[V]	
Peak power rating	[kW]	
RF Peak voltage rating	[V]	
DC-resistance inner conductor	[Ω/km (Ω/1000ft)]	3.0 (0.92)
DC-resistance outer conductor	[Ω/km (Ω/1000ft)]	5.3 (1.61)

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	Attenuation	
[MHz]	[dB/100m]	[dB/100ft]
0.5	0.363	0.111
1.0	0.453	0.138
1.5	0.623	0.190
2.0	0.802	0.244
10	1.50	0.457
20	2.04	0.622
30	2.35	0.716
50	2.95	0.899
88	3.85	1.17
100	4.08	1.24
108	4.22	1.29
150	4.88	1.49
174	5.23	1.59
200	5.61	1.71
300	6.95	2.12
400	8.09	2.47
450	8.65	2.64
500	9.13	2.78
512	9.24	2.82
600	10.1	3.08
700	10.9	3.32
800	11.8	3.60
824	12.0	3.66
894	12.5	3.81
900	12.6	3.84
925	12.8	3.90
960	13.0	3.96
1000	13.2	4.02
1250	14.9	4.54
1500	16.5	5.03
1700	17.7	5.39
1800	18.2	5.55
2000	19.4	5.91
2200	21.3	6.49
2300	21.8	6.64
3000	24.3	7.41

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