RGC58 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

OEM jumpers, BTS inter-cabinet connections Application:



Features/Benefits

Technical Fea	atures		
Structure			
Inner conductor:	Copper Wire	[mm (in)]	1.06 (0.040)
Dielectric:		[mm (in)]	2.95 (0.117)
Outer conductor:	1st shield: Al/PET foil bonded to the core with 100% of coverage; 2nd shield: Tinned copper braid with 75% of coverage	[mm (in)]	3.60 (0.141)
Jacket:	Polyethylene, PE	[mm (in)]	5.0 (0.197)
Mechanical Prop	perties		
Weight, approximately		[kg/m (lb/ft)]	0.030 (0.020)
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 Prope	rties		
Characteristic impedance		[Ω]	50 +/- 2
Relative propagation velocity		[%]	82
Capacitance		[pF/m (pF/ft)]	82 (25.0)
Inductance		[μH/m (μH/ft)]	0.205 (0.062)
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)]	21.5 (6.55)
DC-resistance outer conductor		[Ω/km (Ω/1000ft)]	19.1 (5.8)
Recommended -	Temperature Range		
Storage temperature		[°C (°F)]	-70 to +85 (-94 to +185)

[MHz] [dB/100m] [dB/100ft] 0.5 1.0 0.305 1.0 1.30 0.396 5.0 2.80 0.853 10 3.70 1.13 20 4.70 1.43 30 5.70 1.74 50 7.30 2.23 88 9.80 2.99 100 10.4 3.17 108 10.9 3.32 150 13.0 3.96 174 14.0 4.27 200 15.0 4.57 300 18.4 5.61 400 21.2 6.46 450 22.6 6.89 500 23.8 7.25 512 24.0 7.32 600 26.0 7.92 700 28.9 8.81 800 30.8 9.39 824 32.2 9.81 894 33.5 10.2 <	Frequency	Attenuation		
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925 34.0 10.4				
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1000 35.4 10.8	1000	35.4	10.8	
1250 42.0 12.8	1250			
1500 46.0 14.0				
1700 49.0 14.9				
1800 51.0 15.5	1800	51.0		
2000 55.0 16.8	2000	55.0	16.8	
2400 62.0 18.9	2400	62.0	18.9	

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

Operation temperature
Other Characteristics

Installation temperature

Fire Performance: Halogene Free

VSWR Performance: [dB (VSWR)]

Other Options:

[°C (°F)]

[°C (°F)]

-40 to +60 (-40 to +140)

-50 to +85 (-58 to +185)