



Flexible cable 5/50 D (RG142)



P/N: ST291 320 007

APPLICATION NOTE

RG142 is one of the most popular RG cables.

This cable offers a compromise between flexibility and electrical performances.

RG142 will be selected among other 5/50 RG's for applications requiring high frequency range and low attenuation.

Suitable for severe thermal conditions.

CONSTRUCTION / DIMENSIONS

	Material	mm	Inches
Center conductor	Solid SPOCS ⁽¹⁾	0.94	0.037
Dielectric	Solid PTFE ⁽²⁾	2.95	0.116
Inner shield	SPC ⁽³⁾ braid	-	-
Outer shield	SPC ⁽³⁾ braid	4.19	0.165
Jacket	Brown FEP ⁽⁴⁾	4.95	0.195

ELECTRICAL CHARACTERISTICS

Characteristic impedance	50Ω ± 2Ω	
Operating frequency range	DC - 12.4 GHz	
Shielding effectiveness	65 dB (DC - 3GHz)	
Voltage withstanding	5 000 V rms	
Peak power	3.4 kW	
Capacitance	97 pF / m	29.3 pF / ft
Velocity of propagation	70 % (4.8 ns / m)	