



RG223

RG-Cables acc. to MIL-C-17F and MIL-C-17G



Application

see product overview

Standards

acc. to MIL-C-17F and MIL-C-17G

Flame resistance

acc. to IEC 60332-1

Construction

Inner conductor	copper wire, silver plated, diameter 0.89 ± 0.025 mm
Insulation	PE, diameter 2.95 ± 0.1 mm
1 st braid	silver plated, 96% optical coverage
2 nd braid	silver plated, 96% optical coverage
Sheath	PVC, diameter 5.38 ± 0.1 mm

Mechanical properties

Minimum bending radius	without load	5 x outer diameter
	with load	10 x outer diameter
Temperature	during operation	-40° C to + 85° C
	during installation	-15° C to + 55° C

All other requirements acc. to MIL-C-17F respectively MIL-C-17G

Electrical properties

at 20°C

DC resistance	Inner conductor	29.1 Ω /km
	1 st braid	13.5 Ω /km
	2 nd braid	15.5 Ω /km
Mutual capacitance		100 pF/m
Characteristic impedance		50 $\Omega \pm 2 \Omega$
Velocity ratio		66 %
Max. operating frequency		12.4 GHz
Operating voltage		1.4 kV _{rms}
Test voltage	Inner/Outer conductor	5.0 kV _{rms}

**RG223****Electrical data****at 20°C**

Frequency (MHz)	Attenuation (dB/100m)	Max. power rating (Watts) (ambient temperature 25°C and max. inner conductor temperature 70°C)	Return loss (dB) several peaks are allowed	
	nominal	maximum	Frequency (MHz)	
50	9.8	350	100	≥ 27
400	28.4	86	1 GHz	≥ 23.5
1000	45.9	50	2 GHz	≥ 21.5
3000	83.1	32	4-5 GHz	≥ 21.0
5200	112.7	24	10 GHz	≥ 20
5800	120.6	22		