

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 0.90 ± 0.01 mm
Insulation	PE, diameter 2.95 ± 0.05
1 st braid	silver plated, 96% optical coverage
2 nd braid	silver plated, 96% optical coverage
Sheath	PVC, diameter 5.40 ± 0.10

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}

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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	
			Frequency (MHz)	
	nominal	maximum		
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		

Technical data

Product code	Designation	Type	Brand name	Outer diameter	Weight	Standard delivery length	Drum size	Gross weight	Copper content	Tensile force
				mm	kg/km	m	*PWD	kg		
1002746	2YCCY	0.89s/2.95 Ds	M17/84-RG223	5.4	56.4	1000/100	500/200/250	60/6	40.5	240
**1002748	2YCCY	0.89s/2.95 Ds	M17/84-RG223	5.4	56.4	2000	760/360/580	124	40.5	240
***1002749	2YCCY	0.89s/2.95 Ds	M17/84-RG223	5.4	56.4	2000	760/360/580	124	40.5	240
1002752	2YCCY	0.89s/2.95 Ds	M17/84-RG223	5.4	56.4	2000	760/360/580	124	40.5	240

*PWD (plywood drum)

**RG223 with close tolerance of the characteristic impedance $\pm 1 \Omega$ and special customer marking

***RG223 white and with close tolerance of the characteristic impedance $\pm 1 \Omega$ and without marking

Product Code Table

Product Description	Product Code	PG Reference Code	PG Part Number
RG223 MIL-C-17F 1000DW	1002746-01000DW	60014316	60011606
RG223 MIL-C-17F 500DW	1002746-00500DW	60014316	60011607
RG223 MIL-C-17F		60014316	60014316
DR RG223 M17 50 0.90/2.95 PVC BK 250DW	1002746-00250DW	--	60017546

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