

Description

RG coaxial cable as per MIL-C-17 - 50 Ohm

Class A+

Coaxial Cables

CAVEL®

since 1968

Data Sheet

RG223/U



Ø	0,90	2,95	3,46	3,97	5,40
	(CuAg)	(PE)	(CuAg)	(CuAg)	(PVC)

Standards

MIL-C-17

Construction data

Inner conductor of silver coated copper wire (5 ‰)	(CuAg)	Ø 0,90 ± 0,03	mm
Dielectric of solid polyethylene	(PE)	Ø 2,95 ± 0,10	mm
Braid of silver coated copper wires (5 ‰)	(CuAg)		
Braid optical coverage (IEC 96-1)		95	%
Braid optical coverage (IEC 96-1) - External		96	%
Diameter over Braid		Ø 3,97	mm
Outer sheath of Polyvinylchloride - black - non-migrating as per MIL-C-17	(PVC)	Ø 5,40 ± 0,10	mm

Printed by yellow ink-jet :

CAVEL - RG223/U MADE IN ITALY - 50 Ohm MIL-C-17 ss/aa

(ss=week, aa=year)

Physical data

Weight of copper conductors	36,20	kg/km
Total weight of cable	55,70	kg/km
Minimum bending radius (single/repetead bending)	30/60	mm
Maximum cable pulling strength	100	N
Minimum installation temperature	- 5	°C
Operating temperature	-40 / +80	°C

Electrical data

Characteristic impedance	50 ± 2	Ohm	
Capacitance (@1kHz)	102 ± 2	pF/m	
Velocity Ratio	66 %		
Inner conductor resistance	28	Ohm/km	
Outer conductor resistance	6,50	Ohm/km	
Loop resistance	34,50	Ohm/km	
Sheath Insulation Voltage	5	kV	
Structural return loss (SRL)	Max. power		
30 - 300 MHz	>26 dB	20 MHz	850 W
300 - 600 MHz	>24 dB	400 MHz	200 W
600 - 1000 MHz	>23 dB	3000 MHz	70 W
		100 MHz	400 W
		1000 MHz	120 W
		6000 MHz	50 W

SA-Class A+
30 - 1000 MHz >90 dB

Transfer Impedance (Zt)
5 - 30 MHz < 0,9 mΩ/m

ITALIANA CONDUTTORI s.r.l.

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Tel +39-382.815150 Fax +39-0382.814212

Date

21/06/2017

Responsible

Alberto Scardovi

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1000 - 2000 MHz	>90 dB
2000 - 6000 MHz	>80 dB

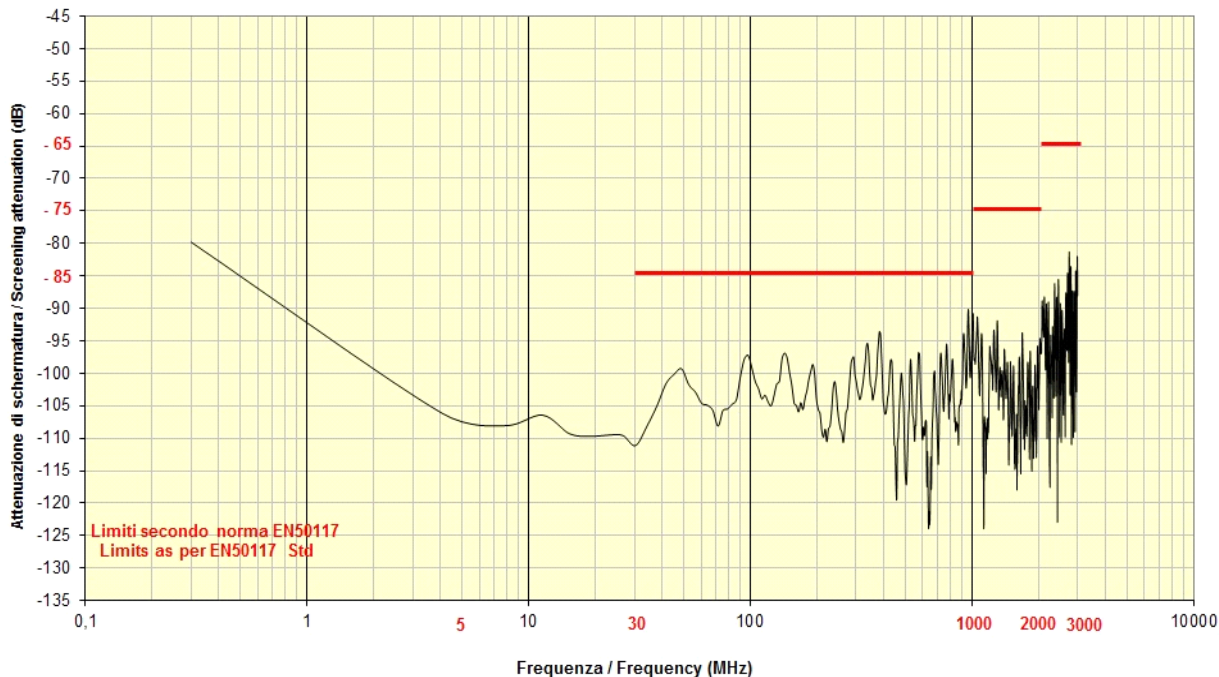
Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
100	13,00	1500	60,00
200	19,00	2000	71,00
300	24,00	2500	82,10
500	31,00	3000	91,00
800	40,00	6000	128,70
1000	45,00		

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

Cavo tipo / Cable type: RG223/U



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