

Description

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

PVC Outer Sheath



Data Sheet

RG223/U



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

Standards

MIL-C-17

Application

Indoor Installation

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 (RAL 9011)	(PVC)	Ø 5,40 ± 0,10	mm

Printed each meter by yellow ink-jet :

CAVEL RG223/U MADE IN ITALY 50 Ohm MIL-C-17 gggaa(n) m

(gggaan=batch number m=meter marking)

Physical data

Weight of copper conductors	35,60	kg/km
Total weight of cable	55,60	kg/km
Minimum bending radius (single/repeated bending)	30/60	mm
Maximum cable pulling strength	100	N
Minimum installation temperature	- 5	°C
Operating temperature	-20 / +70	°C

Electrical data

Characteristic impedance	50 ± 3	Ohm
Capacitance (@1kHz)	104 ± 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	>27 dB	
	20 MHz	850 W
	100 MHz	400 W

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Responsible

A. Bergaglio

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300 - 600 MHz	>25 dB	400 MHz	200 W	1000 MHz	120 W
600 - 1000 MHz	>23 dB	3000 MHz	70 W	6000 MHz	50 W

	SA-Class A+	Transfer Impedance (Zt)	
30 - 1000 MHz	>90 dB	5 - 30 MHz	< 0,9 mΩ/m
1000 - 2000 MHz	>90 dB		
2000 - 6000 MHz	>80 dB		

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
50	10,10	1500	62,00
200	19,50	2000	73,10
300	24,10	2500	85,20
470	31,00	3000	91,10
800	42,20	6000	128,70
1000	47,10		

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