Description

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

Coaxial Cables CAVEL since 1968

Data Sheet

RG174A/U

Ø	0,48 (FeCu)	1,50 (PE)	1,90 (CuSn)	2,80 (PVCII)

Standards

MIL-C-17

Construction data

Inner conductor of stranded copper clad steel wires	(FeCu)	7x0,16	Ø 0,48 ± 0,015	mm
Dielectric of solid polyethylene	(PE)		Ø 1,50 ± 0,08	mm
Braid of tinned copper wires	(CuSn)			
Braid optical coverage (IEC 96-1)			87	%
Diameter over Braid			Ø 1,90	mm
Outer sheath of non-migrating Polyvinylchloride - black - non migrating	(PVCII)		Ø 2,80 ± 0,12	mm

Printed each 50 cm by ink-jet :

CAVEL - RG 174A/U - MADE IN ITALY - 50 Ohm MIL-C-17 gggaan

(gggaan=batch)

Physical data

Weight of copper conductors	4,60	kg/km
Total weight of cable	11,80	kg/km
Minimum bending radius (single/repetead bending)	15/30	mm
Maximum cable pulling strength	120	N
Stripping force between inner conductor and dielectric	< 20	N
Minimum installation temperature	-5	°C
Operating temperature	-40 / +80	°C

Electrical data

Characteristic impedance	50 ± 2	Ohm
Capacitance (@1kHz)	101 ± 2	pF/m
Velocity Ratio	66 %	
Inner conductor resistance	290	Ohm/km
Outer conductor resistance	42	Ohm/km
Loop resistance	332	Ohm/km
Sheat Insulation voltage (spark test)	2	kV

Structural return loss (SRL)

30 - 300 MHz	>21 dB
300 - 600 MHz	>19 dB
600 - 1000 MHz	>18 dB

Max. power

100 MHz	50 W	400 MHz	25 W
1000 MHz	15 W		

Screening Attenuation (SA)

30 - 1000 MHz	>55 dB

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Date 29/02/2016

Responsible PierPaolo Piccinini

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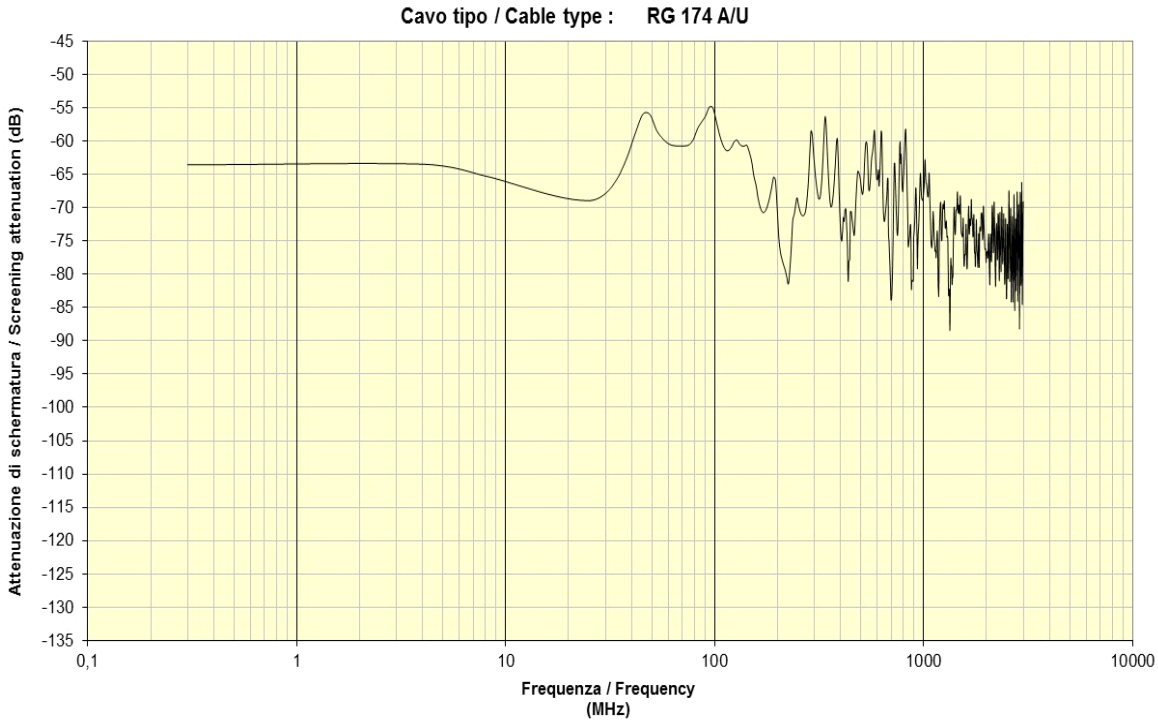
Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
50	20,00	470	63,00
200	42,50	800	82,95
300	51,00	1000	97,00

Attenuazione di schermatura / Screening Attenuation



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