

Description

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

Coaxial Cables

CAVEL[®]

since 1968

Data Sheet

RG174A/U

7x0,16



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

Construction data

Inner conductor of stranded copper clad steel wires	(FeCu)	7x0,16	0,48 ± 0,03 mm
Dielectric of solid polyethylene	(PE)		1,50 ± 0,08 mm
Braid of tinned copper wires	(CuSn)		
Braid optical coverage (IEC 96-1)			87 %
Diameter under Sheath			1,90 mm
Outer sheath of non-migrating Polyvinylchloride - black - non migrating	(PVCII)		2,80 ± 0,12 mm

Printed each 50 cm by ink-jet :

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

(ss=week, aa=year)

Electrical data

Characteristic impedance	200 MHz	50 ± 2	Ohm
Capacitance (@1kHz)		101 ± 2	pF/m
Velocity Factor		66 %	
Inner conductor resistance		290	Ohm/km
Outer conductor resistance		42	Ohm/km
Loop resistance		332	Ohm/km
Insulation voltage of the sheath (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	50,00
400 MHz	25,00
1000 MHz	15,00

Screening Attenuation (SA)

30 - 1000 MHz	>55 dB
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Transfer impedance

5 - 30 MHz	11 mOhm/m
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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	862	86,10
300	51,00	1000	97,00

ITALIANA CONDUTTORI s.r.l.

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 Tel +39-382.815150 Fax +39-0382.814212

Date

11/04/2014

Responsible

PierPaolo Piccinini

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Mechanical data

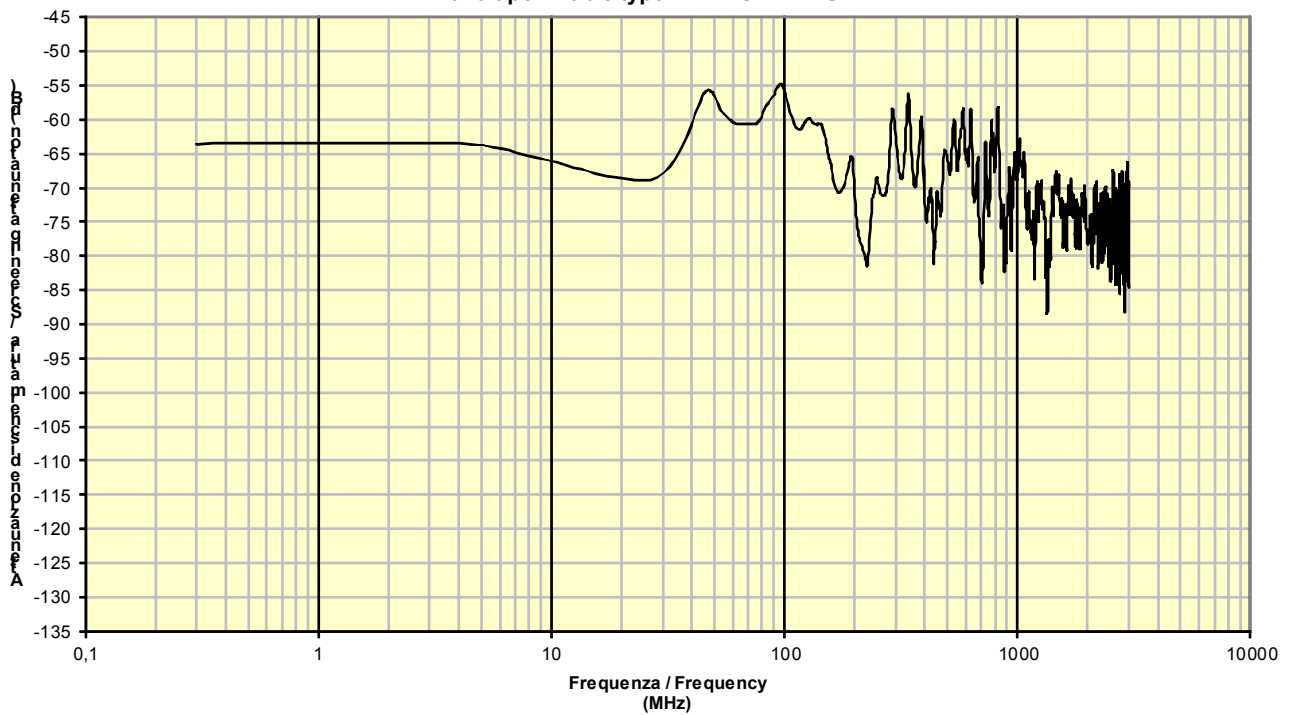
Weight of copper conductors	4,59	kg/km	
Total weight of cable	11,80	kg/km	
Minimum bending radius (single/repeated bending)	15/30	mm	
Maximum cable pulling strength	120	N	
Stripping force between inner conductor and dielectric	< 20 N		Il provino per misurare lo sfilamento dev
Fire Load	158	MJ/km	44 kWh/km

Standards

MIL-C-17

Attenuazione di schermatura / Screening Attenuation

Cavo tipo / Cable type : **RG 174 AU**



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