

Description

RG Coaxial Cable Type - 50 Ohm

LSZH Outer Sheath



Data Sheet

RG174A/UZHN

7x0,16



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

Application

Indoor + Outdoor Installation

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 Thermoplastic material - black (RAL 9011) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)		Ø 2,90 ± 0,12	mm
Printed each 50 cm by yellow ink-jet :				

CAVEL RG174A/UZHN MADE IN ITALY 50 Ohm gggaa(n) m

(gggaan=batch number m=meter marking)

Physical data

Weight of copper conductors	4,59	kg/km
Total weight of cable	12,46	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
Minimum installation temperature	-5	°C
Operating temperature	-20 / +80	°C

Electrical data

Characteristic impedance				50 ± 2		Ohm
Capacitance (@1kHz)				103 ± 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)				Max. power		
30 - 300 MHz	>26 dB	100 MHz	50 W	400 MHz	25 W	
300 - 600 MHz	>25 dB	1000 MHz	15 W			
600 - 1000 MHz	>24 dB					

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Date

04/08/2023

Responsible

A. Bergaglio

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RG174A/UZHN**Screening Attenuation (SA)**

30 - 1000 MHz

>55 dB

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
50	19,10	470	62,30
200	39,70	800	82,50
300	49,20	1000	93,40

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