

Description

50 Ohm Coaxial cable

low loss for wireless communication systems

Coaxial Cables

CAVEL®

since 1968

Data Sheet

WL400



Ø	2,70	7,20	7,37	7,97	10,30
	(Cu)	(PEG/PE)	(Al/Pet/Al/Sur)	(CuSn)	(PE)

Class CPR acc. to UE 305/2011 (DoP)

Fca

The cable can be used in the field of application of the Construction Product Regulation (DoP) UE nr. 305/2011 for the class of performance specified on the related product label.

Construction data

Inner conductor of plain copper	(Cu)	Ø 2,70 ± 0,10	mm
Dielectric of physical foam polyethylene + outer PE skin	(PEG/PE)	Ø 7,20 ± 0,15	mm
Aluminium/Polyester/Aluminium/Surlyne tape longitudinally overlapped and bonded to the dielectric	(Al/Pet/Al/Sur)		
Braid of tinned copper wires	(CuSn)		
Braid optical coverage (IEC 96-1)		82	%
Diameter over Braid		Ø 7,97	mm
Outer sheath of Polyethylene - black - with carbonblack	(PE)	Ø 10,30 ± 0,20	mm
Printed each meter by yellow ink-jet :			

CAVEL WL 400 50 Ohm LOW LOSS WI-FI/RF - MADE IN ITALY - ss/aa - m

(ss=week, aa=year) (m=meter marking)

Physical data

Weight of copper conductors	80,18	kg/km
Total weight of cable	147,50	kg/km
Minimum bending radius	100	mm
Maximum cable pulling strength	720	N
Minimum installation temperature	-5	°C
Operating temperature	-25 / +80	°C

Electrical data

Characteristic impedance	50 ± 2	Ohm
Capacitance	78	pF/m
Velocity Ratio	86 %	
Inner conductor resistance	3,40	Ohm/km
Outer conductor resistance	5,40	Ohm/km
Loop resistance	8,80	Ohm/km
Sheat Insulation voltage (spark test)	8	kV
Maximum current (Ieff)	25	A
Structural return loss (SRL)	Max. power	
5 - 470 MHz	>30 dB	30 MHz 3.360 W 50 MHz 2.590 W
470 - 1000 MHz	>28 dB	150 MHz 1.470 W 220 MHz 1.200 W
1000 - 2000 MHz	>26 dB	

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Date

19/05/2017

Responsible

Alberto Scardovi

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**Data Sheet****WL400**

2000 - 3000 MHz >22 dB

Screening Attenuation (SA)

>90 dB

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
50	2,60	1500	16,60
150	4,60	1800	18,20
220	5,70	2000	19,30
450	8,70	2500	22,00
900	12,50	5800	29,40

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