

Description

50 Ohm Coaxial cable

low loss for wireless communication systems



Data Sheet

WL300



Ø	1,80	4,80	4,97	5,57	7,60
	(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 1,80 ± 0,02	mm
Dielectric of physical foam polyethylene + outer PE skin	(PEG/PE)	Ø 4,80 ± 0,10	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)		84	%
Diameter over Braid		Ø 5,57	mm
Outer sheath of Polyethylene - black - with carbonblack	(PE)	Ø 7,60 ± 0,10	mm
Printed each meter by yellow ink-jet :			

CAVEL WL 300 50 Ohm LOW LOSS WI-FI/RF - MADE IN ITALY - ss/aa - m
(ss=settimana aa=anno)

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

Physical data

Weight of copper conductors	43,90	kg/km
Total weight of cable	83,80	kg/km
Minimum bending radius	75	mm
Maximum cable pulling strength	540	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					7	Ohm/km
Outer conductor resistance					7,30	Ohm/km
Loop resistance					14,30	Ohm/km
Sheat Insulation voltage (spark test)					5	kV
Maximum current (Ieff)					18	A
Structural return loss (SRL)				Max. power		
5 - 470 MHz	>30 dB	30 MHz	2.090 W	50 MHz	1.620 W	
470 - 1000 MHz	>28 dB	150 MHz	920 W	220 MHz	760 W	
1000 - 2000 MHz	>26 dB					

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Date

19/05/2017

Responsible

Alberto Scardovi

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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	4,10	1500	24,50
150	7,00	1800	27,00
220	8,60	2000	28,60
450	12,80	2500	32,50
900	18,60	5800	50,00

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