

Description

50 Ohm Coaxial cable

low loss for wireless communication systems

Coaxial Cables

CAVEL®

since 1968

Data Sheet

WL240ZHN



Ø	1,40	3,80	3,90	4,38	6,10
	(Cu)	(PEG/PE)	(Al/Pet/Al)	(CuSn)	(LSZH)

Construction data

Inner conductor of plain copper	(Cu)	Ø 1,40 ± 0,02	mm
Dielectric of physical foam polyethylene + outer PE skin	(PEG/PE)	Ø 3,80 ± 0,10	mm
Outer Aluminium/Polyester/Aluminium tape longitudinally overlapped	(Al/Pet/Al)		
Braid of tinned copper wires	(CuSn)		
Braid optical coverage (IEC 96-1)		78	%
Diameter over Braid		Ø 4,38	mm
Outer sheath of Thermoplastic material - black - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 6,10 ± 0,10	mm

Printed each meter by yellow ink-jet :

CAVEL WL240ZHN - MADE IN ITALY - 50 Ohm LOW LOSS WI-FI/RF gggan m

(ggg=day)(aa=year)(n=batch) (m=meter marking)

Physical data

Weight of copper conductors	25,34	kg/km
Total weight of cable	49,40	kg/km
Minimum bending radius	60	mm
Maximum cable pulling strength	360	N
Minimum installation temperature	-5	°C
Operating temperature	-40 / +80	°C

Electrical data

Characteristic impedance	50 ± 2	Ohm
Capacitance	82	pF/m
Velocity Ratio	80 %	
Inner conductor resistance	11,20	Ohm/km
Outer conductor resistance	12,40	Ohm/km
Loop resistance	23,60	Ohm/km
Sheat Insulation voltage (spark test)	5	kV
Maximum current (Ieff)	12	A
Structural return loss (SRL)	Max. power	
5 - 470 MHz	>30 dB	30 MHz 1.410 W 50 MHz 1.090 W
470 - 1000 MHz	>28 dB	150 MHz 620 W 220 MHz 510 W
1000 - 2000 MHz	>26 dB	
2000 - 3000 MHz	>22 dB	

Screening Attenuation (SA)

>90 dB

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Date

10/05/2017

Responsible

Alberto Scardovi

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**Data Sheet****WL240ZHN****Attenuation (at 20°C)**

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
50	5,40	1500	30,70
150	9,20	1800	33,90
220	11,20	2000	35,90
450	16,20	2500	40,60
900	23,30	5800	65,20

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