

Description

50 Ohm Coaxial cable
low loss for wireless communication systems



Data Sheet

WL195N



Ø	1,00	2,80	2,90	3,38	4,95
	(Cu)	(PEG/PE)	(Al/Pet/Al)	(CuSn)	(PVC)

Construction data

Inner conductor of plain copper	(Cu)	Ø 1,00 ± 0,02	mm
Dielectric of physical foam polyethylene + outer PE skin	(PEG/PE)	Ø 2,80 ± 0,10	mm
Outer Aluminum/Polyester/Aluminum tape longitudinally overlapped	(Al/Pet/Al)		
Braid of tinned copper wires	(CuSn)		
Braid optical coverage (IEC 96-1)		83	%
Diameter over Braid		Ø 3,38	mm
Outer sheath of Polyvinylchloride - black - lead-free	(PVC)	Ø 4,95 ± 0,10	mm

Printed each meter by yellow ink-jet :

CAVEL WL195 N 50 Ohm LOW LOSS WI-FI/RF - MADE IN ITALY- gggaaan - m

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

Physical data

Weight of copper conductors	16,85	kg/km
Total weight of cable	34,40	kg/km
Minimum bending radius	50	mm
Maximum cable pulling strength	180	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	22,10	Ohm/km
Outer conductor resistance	15,30	Ohm/km
Loop resistance	37,40	Ohm/km
Sheat Insulation voltage (spark test)	3	kV
Maximum current (I _{eff})	6	A
Structural return loss (SRL)	Max. power	
5 - 470 MHz	>30 dB	30 MHz 880 W 50 MHz 680 W
470 - 1000 MHz	>28 dB	150 MHz 390 W 220 MHz 320 W
1000 - 2000 MHz	>26 dB	450 MHz 220 W 900 MHz 160 W
2000 - 3000 MHz	>22 dB	1500 MHz 120 W 1800 MHz 110 W
		2000 MHz 100 W 2500 MHz 90 W
		4800 MHz 60 W

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Date

19/05/2021

Responsible

A. Bergaglio

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Coaxial Cables

CAVEL®

since 1968

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Screening Attenuation (SA)

>90 dB

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
50	8,00	1800	47,00
150	13,00	2000	49,80
220	15,80	2500	56,00
450	22,70	3000	61,00
900	32,20	4000	72,50
1500	42,50	4800	80,50

Connectors

- NF195** Series NF Crimp, Crimp, for INDOOR installation, nitin-plated brass
- NM195** Series NM Crimp, Crimp, for INDOOR installation, nitin-plated brass
- SMAF195** Series SMA female, Crimp, for INDOOR installation
- SMAM195** Series SMA male, Crimp, for INDOOR installation

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