

## Description

50 Ohm Coaxial cable

low loss for wireless communication systems

Coaxial Cables

CAVEL®

since 1968

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 Aluminium/Polyester/Aluminium 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 (Ieff)	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
		5800 MHz 50 W

ITALIANA CONDUTTORI s.r.l.

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Tel +39-382.815150 Fax +39-0382.814212

Date

05/06/2017

Responsible

Alberto Scardovi

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Screening Attenuation (SA)

&gt;90 dB

## Attenuation (at 20°C )

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
50	7,40	1500	41,90
150	12,60	1800	46,20
220	15,30	2000	49,00
450	22,20	2500	55,30
900	32,00	5800	88,20

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