

Description

Miniature indoor coaxial cable - 75 Ohm
For short distances only (Screening Class A)

Coaxial Cables

CAVEL®

since 1968

Data Sheet

CW41S



Ø	0,41	1,90	2,07	2,47	3,60
	(FeCu)	(PEG)	(Al/Pet/Al/Sur)	(CuSn)	(PVC)

Construction data

Inner conductor of copper clad steel	(FeCu)	0,41 ± 0,02 mm
Dielectric of physical foam polyethylene	(PEG)	1,90 ± 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)		70 %
Diameter under Sheath		2,47 mm
Outer sheath of Polyvinylchloride - white (PVC) - lead-free	(PVC)	3,60 ± 0,10 mm

Printed each meter by blue ink-jet :

CAVEL CW 41 S MADE IN ITALY 75 Ohm EN50117-2-4 CEI-UNEL 36762 C-4 (U0 =400V) ss/aa

(ss=week, aa=year)

Electrical data

Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		55 ± 3	pF/m
Velocity Factor		82 %	
Inner conductor resistance		310	Ohm/km
Outer conductor resistance		30	Ohm/km
Loop resistance		340	Ohm/km
Insulation voltage of the sheath (spark test)		2,50	kV

Structural return loss (SRL)

5 - 470 MHz	>29 dB
470 - 1000 MHz	>27 dB
1000 - 2000 MHz	>22 dB
2000 - 3000 MHz	>18 dB

Screening Attenuation (SA)

30 - 1000 MHz	>90 dB
1000 - 2000 MHz	>90 dB
2000 - 3000 MHz	>80 dB

Transfer impedance

5 - 30 MHz < 0,5 mOhm/m

ITALIANA CONDUTTORI s.r.l.

Viale Zanotti 90 I - 27027 Gropello Cairoli
Tel +39-382.815150 Fax +39-0382.814212

Date

27/02/2012

Responsible

Pierpaolo Piccinini

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Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	3,80	862	45,10
10	5,40	1000	48,70
30	8,60	1750	65,40
50	10,60	2150	73,00
200	21,20	2400	77,40
300	26,20	3000	87,40
470	33,00		

Mechanical data

Weight of copper conductors	4,29	kg/km
Total weight of cable	14,86	kg/km
Minimum bending radius (single/repetead bending)	15/30	mm
Maximum cable pulling strength	120	N

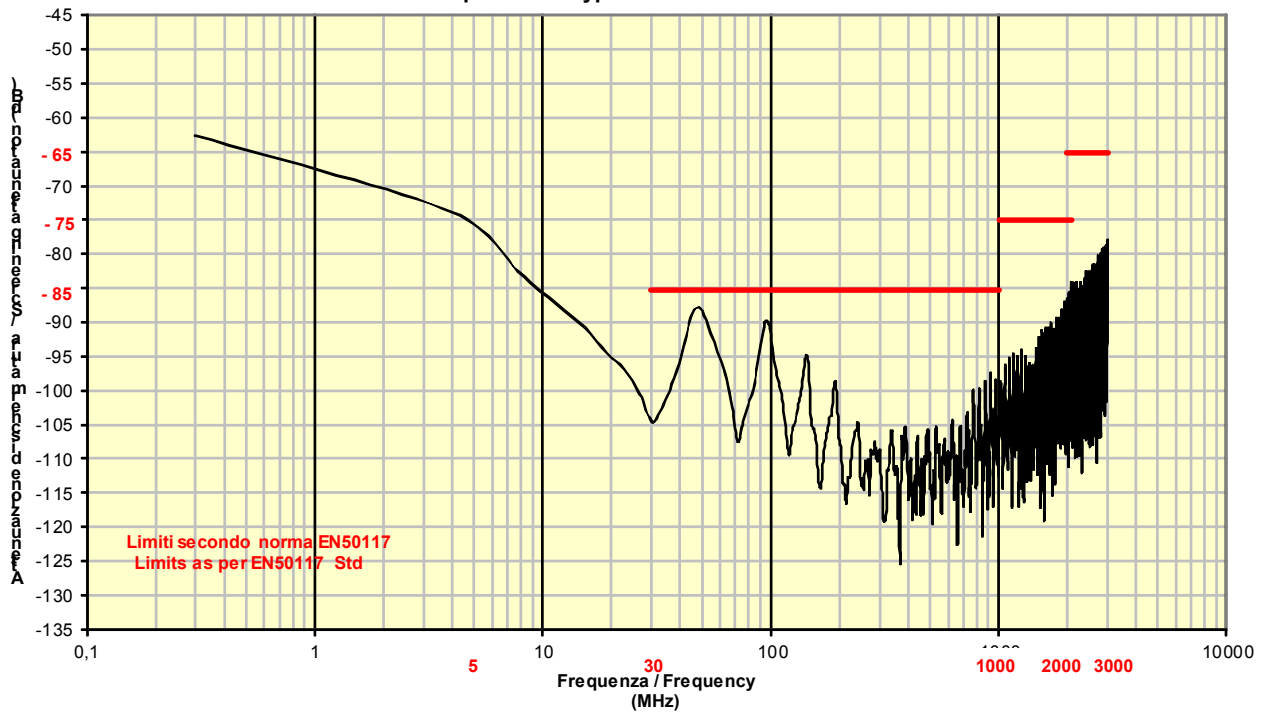
Standards

EN 50117-2-4

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

Cavo tipo / Cable type : **CW 41 S**



Connector

F41 Series F Crimp, F Crimp, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm

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