

## Description

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



## 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

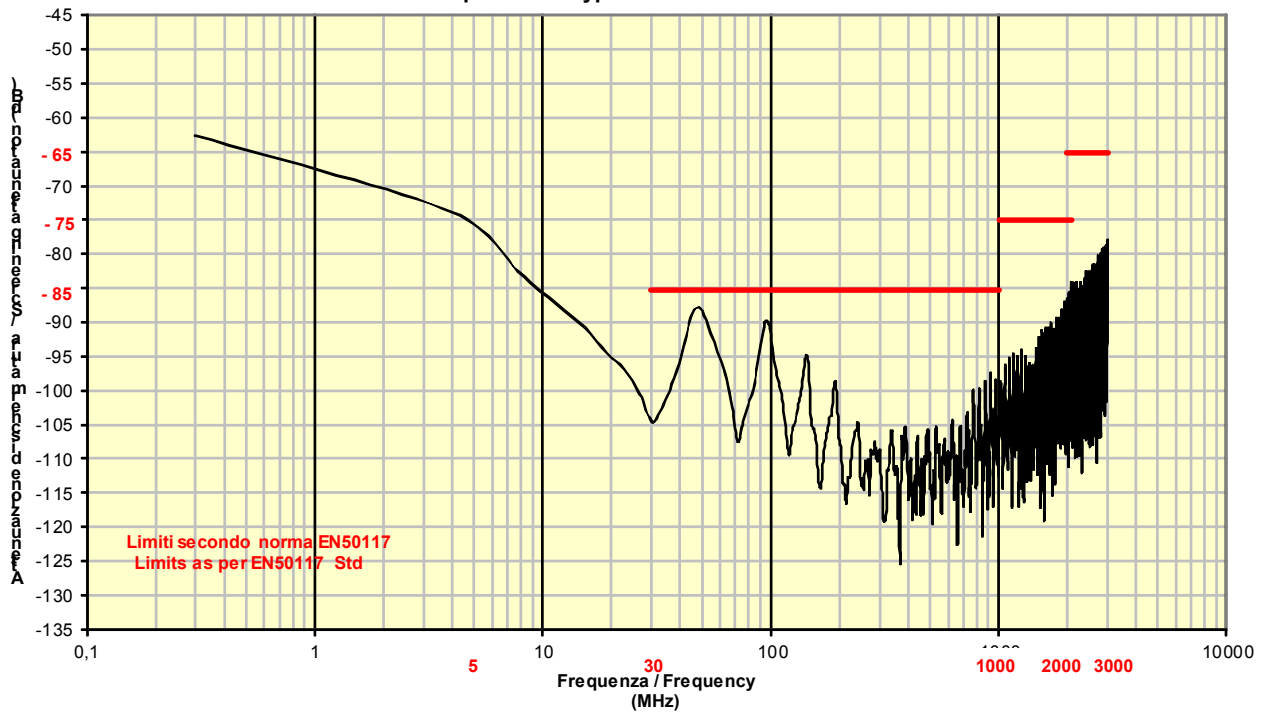
**Standards**

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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