

Description

Miniature indoor coaxial cable - 75 Ohm

For short distances only

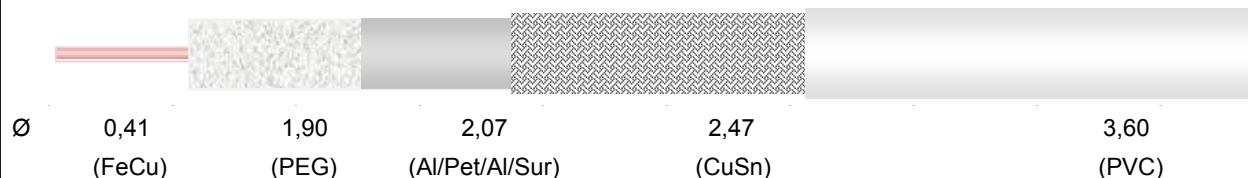
Coaxial Cables

CAVEL®

since 1968

Data Sheet

CW41S



Class CPR acc. to UE 305/2011 (DoP)

Eca

The cable can be used in the field of application of the Construction Product Regulation (DoP) UE nr. 305/2011 for the class of performance specified on the related product label.

Standards

EN 50117-2-4

Reaction to Fire

EN50575

Construction data

Inner conductor of copper clad steel	(FeCu)	Ø 0,41 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 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 over Braid		Ø 2,47	mm
Outer sheath of Polyvinylchloride - white (PVC) - lead-free	(PVC)	Ø 3,60 ± 0,10	mm

Printed each meter by blue ink-jet :

**CAVEL CW 41 S MADE IN ITALY 75 Ohm Euroclass Eca EN50117-2-4 CEI-UNEL 36762 C-4 (U0 = 400V)
gggaan m**

(gggaan=batch number m=meter marking)

Physical data

Weight of copper conductors	4,29	kg/km
Total weight of cable	14,86	kg/km
Minimum bending radius (single/repeated bending)	15/30	mm
Maximum cable pulling strength	120	N
Minimum installation temperature	-5	°C
Operating temperature	-40 / +80	°C

Electrical data

Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		55 ± 3	pF/m
Velocity Ratio		82 %	
Inner conductor resistance		310	Ohm/km
Outer conductor resistance		30	Ohm/km
Loop resistance		340	Ohm/km
Sheat Insulation voltage (spark test)		2,50	kV
Structural return loss (SRL)			

ITALIANA CONDUTTORI s.r.l.

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Tel +39-382.815150 Fax +39-0382.814212

Date

23/03/2017

Responsible

Alberto Scardovi

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

Screening Attenuation (SA)	SA-Class A	Shield Transfer Impedance (Zt)	Zt-Class B
30 - 1000 MHz	>85 dB	5 - 30 MHz	< 10 mOhm/m
1000 - 2000 MHz	>85 dB		
2000 - 3000 MHz	>75 dB		

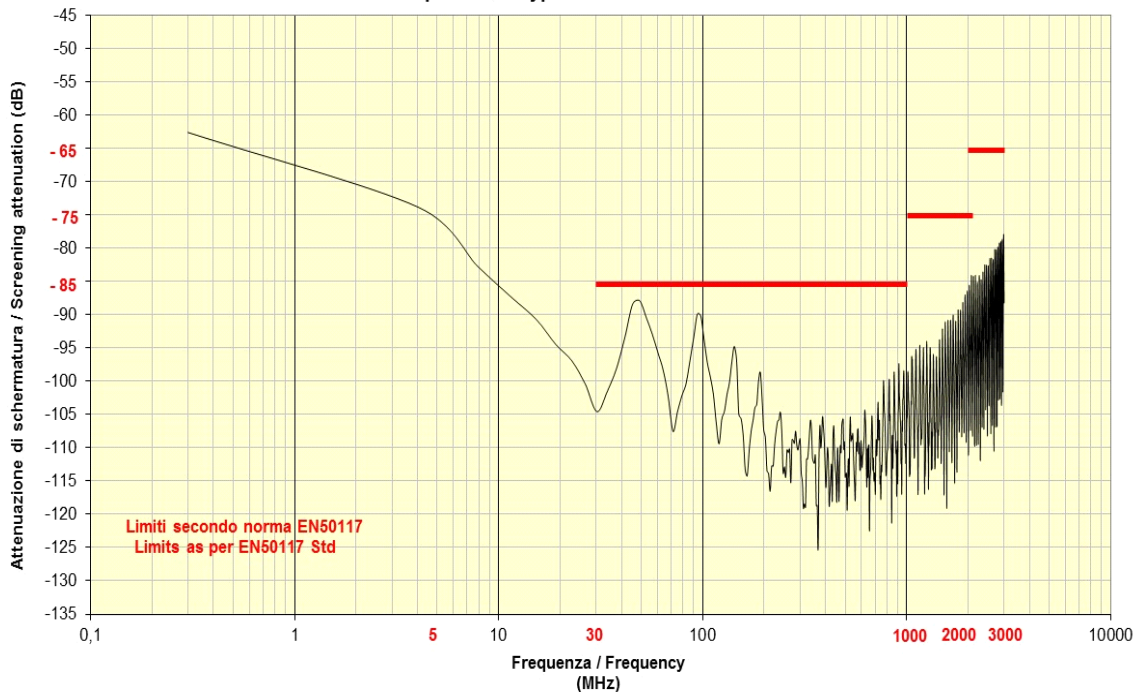
Attenuation (at 20°C)

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		

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

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



Connectors

- BNCC40** Series BNC Compression, BNC Compression, for OUTDOOR installation
- BNCCEM3C** Series BNC Compression, BNC Compression, for OUTDOOR installation
- F41** Series F Crimp, for CW41S, for INDOOR installation, nitin-plated brass - 21,0 mm x 12,0 mm

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