

Description

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

**Data Sheet****CW41SOHW 1/5**

Ø	0,41 (FeCu)	1,90 (PEG)	2,07 (Al/Pet/Al/Sur)	2,47 (CuSn)	3,60 (LSOH)
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Class CPR acc. to UE 305/2011 (DoP)

D _{ca} s2 d2 a1

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

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
Outer aluminium/Polyester/Aluminium/Surlyne tape longitudinally overlapped and bonded to the dielectric	(Al/Pet/Al/Sur)		
Braid of tinned copper wires	0,100	(CuSn)	
Braid optical coverage (IEC 96-1)		70	%
Diameter over Braid		Ø 2,47	mm
Outer sheath of Thermoplastic material - white - halogen-free, low smoke, flame retardant and UV-resistant	(LSOH)	Ø 3,60 ± 0,10	mm

Printed each meter by yellow ink-jet :

CAVEL CW 41 S OHW MADE IN ITALY 75 Ohm Euroclass Dca s2,d2,a1 EN50117-2-5 CEI-UNEL 36762 C-4 (U0 = 400V) gggaan 1-5

(gggaan=batch)

Physical data

Weight of copper conductors	4,29	kg/km
Total weight of cable	15,85	kg/km
Minimum bending radius (single/repeated bending)	15/30	mm
Maximum cable pulling strength	120	N
Minimum installation temperature	-5	°C
Operating temperature	-25 / +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)	5 - 470 MHz	>29 dB	

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Date**12/05/2014****Responsible****Giuseppe Guastella**

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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	>90 dB	5 - 30 MHz	< 10 mΩ/m
1000 - 2000 MHz	>90 dB		
2000 - 3000 MHz	>80 dB		

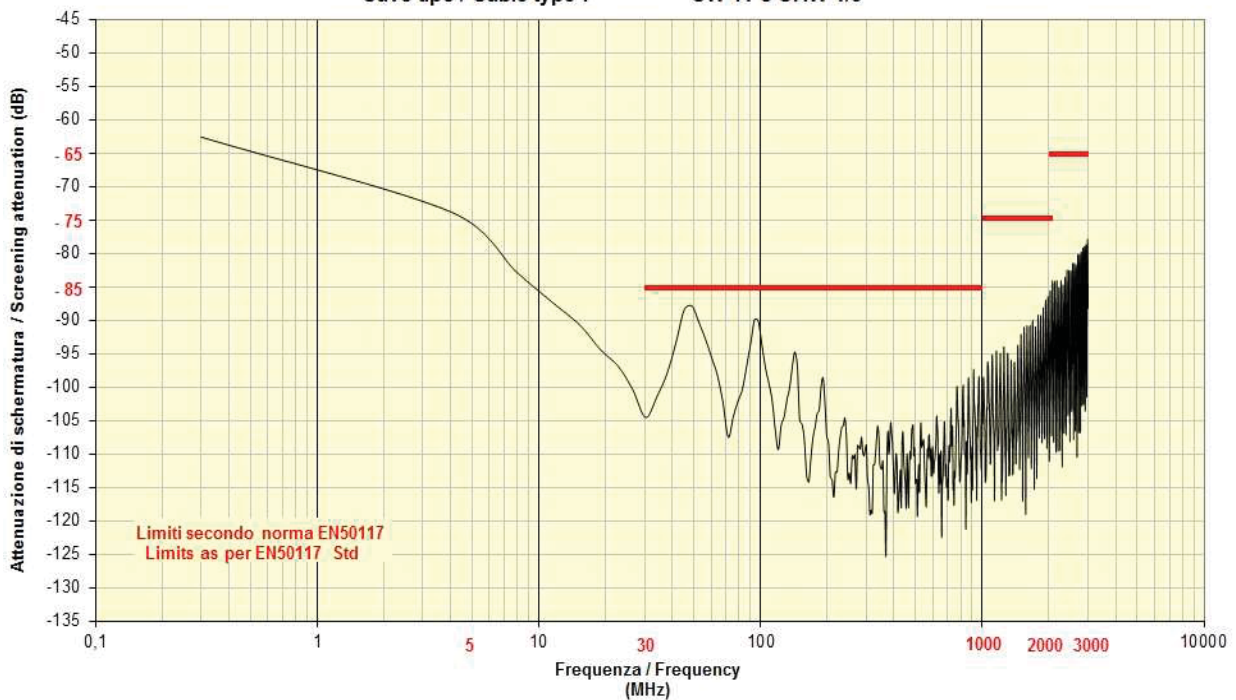
Attenuation (at 20°C)

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 OHW 1/5



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