

Description

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



Data Sheet

CW41S



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

Constructive 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 (PVQ1BI) - lead-free (Q1B) | (PVC) | 3,60 ± 0,10 mm |

Printed each meter by black 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.

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 Tel +39-382.815150 Fax +39-0382.814212

Date

08/09/2008

Responsible

Pierpaolo Piccinini

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For short distances only (Screening Class A)

Coaxial Cables

CAVEL®

since 1968

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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 | | |

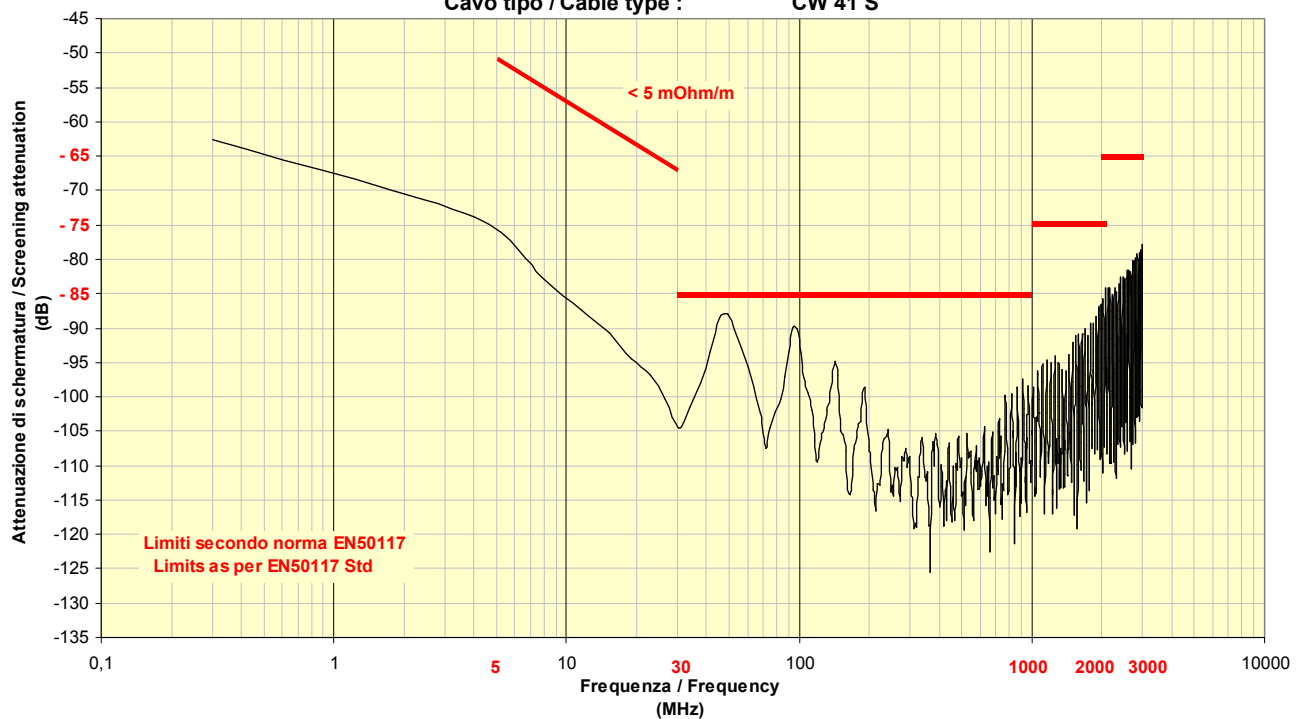
Mechanical data

| | | |
|--|-------|-------|
| Weight of copper conductors | 4,30 | kg/km |
| Total weight of cable | 14,90 | kg/km |
| Minimum bending radius (single/repetead bending) | 15/30 | mm |
| Max. cable pulling strenght | 120 | N |

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

Cavo tipo / Cable type : CW 41 S



Connector

F41

F male crimp connector for indoor installation, nitin-plated brass - 21,0 x 12,0 mm

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