

Description

Indoor drop coaxial cable - 75 Ohm
Indoor installation cable (Screening Class B)

Coaxial Cables

CAVEL®

since 1968

Data Sheet

KF114



Ø	1,13	4,80	4,90	5,30	6,60
	(Cu)	(PEG)	(Cu/Pet)	(Cu)	(PVC)

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

E_{ca}

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

Fire-Resistance Rating

EN50575

Construction data

Inner conductor of plain copper	(Cu)	Ø 1,13 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 4,80 ± 0,10	mm
Copper/Polyester tape longitudinally overlapped	(Cu/Pet)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of annealed copper wires	(Cu)		
Braid optical coverage (IEC 96-1)		37	%
Diameter under Sheath		Ø 5,30	mm
Outer sheath of Polyvinylchloride - white (PVC) - lead-free	(PVC)	Ø 6,60 ± 0,10	mm

Printed each meter by blue ink-jet :

CAVEL KF 114 MADE IN ITALY 75 Ohm Euroclass Eca EN50117-2-4 CEI-UNEL 36762 C-4 (U0 = 400V)
gggaan m

(ggg=day)(aa=year)(n=batch) (m=meter marking)

Physical data

Weight of copper conductors		16,59	kg/km
Total weight of cable		40,42	kg/km
Minimum bending radius (single/repeated bending)		35/70	mm
Maximum cable pulling strength		150	N
Fire Load	615 MJ/km	171	kWh/km

Electrical data

Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Ratio		85 %	
Inner conductor resistance		18	Ohm/km
Outer conductor resistance		22	Ohm/km
Loop resistance		40	Ohm/km
Sheat Insulation voltage (spark test)		3	kV
Maximum current (I _{eff})		8	A

ITALIANA CONDUTTORI s.r.l.

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Responsible

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Structural return loss (SRL)

5 - 470 MHz	>30 dB
470 - 1000 MHz	>28 dB
1000 - 2000 MHz	>26 dB
2000 - 3000 MHz	>22 dB

Screening Attenuation (SA)

SA-Class B

30 - 1000 MHz	>75 dB
1000 - 2000 MHz	>85 dB
2000 - 3000 MHz	>75 dB

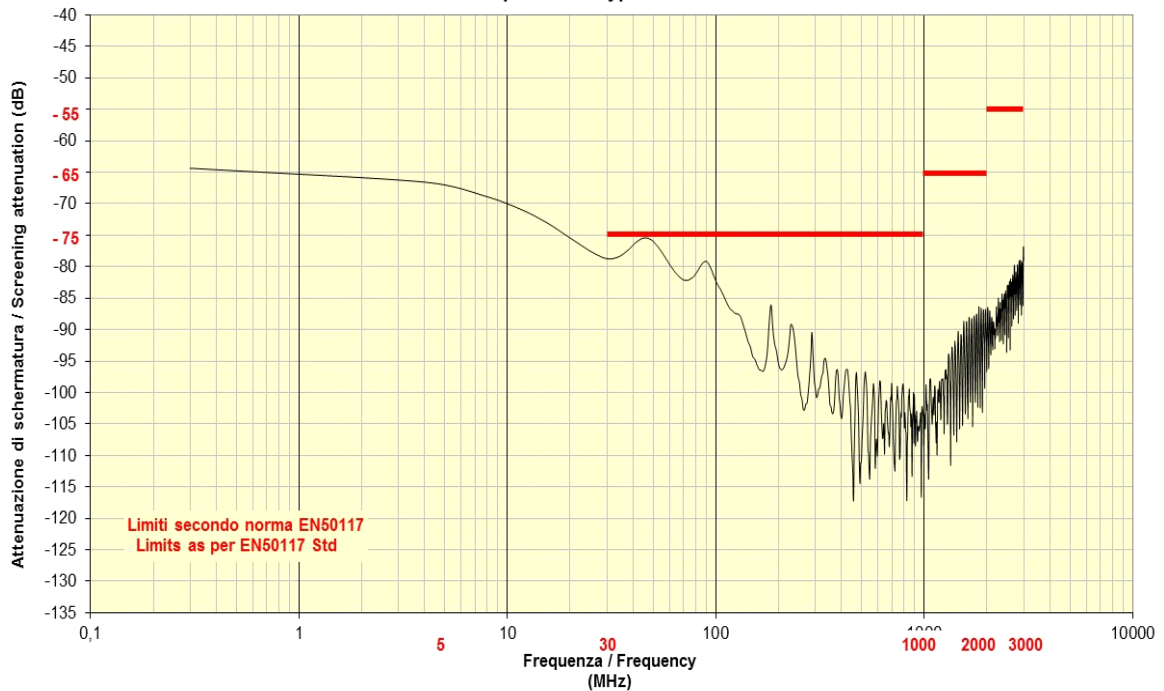
Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,40	862	16,50
10	2,00	1000	17,80
30	3,00	1750	24,20
50	3,70	2150	27,10
200	7,80	2400	28,80
300	9,60	3000	32,60
470	11,90		

Attenuazione di schermatura / Screening Attenuation

Cavo classe B / B Class Cable

Cavo tipo / Cable type: KF 114



Connectors

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BNCC703	Series BNC Compression, BNC Compression, for outdoor installation, nitin-plated brass - 35,0 mm x 14,0 mm
F703	Series F Crimp, F Crimp, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
FA703	Serie F Twist-On, F Twist-On, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
FC7.0QM	Series F Compression, Quick Mount, for outdoor installation
FC703	Series F Compression, F Compression, for outdoor installation, nitin-plated brass - 30,0 mm x 12,0 mm
FCEM7.0C	Series F Compression, F Compression, for outdoor installation, nitin-plated brass
FCPO5.1C	Series F Compression, Ø 5,1 Push-On, for outdoor installation, nitin-plated brass
IECF5.1C	Series IEC (no tool), female, no tool, for indoor installation
IECF90C	Series IEC (no tool), Ø 5,1 90° female, for indoor installation
IECF703	Serie IEC Compression, female, no tool, for outdoor installation
IECM5.1C	Series IEC (no tool), male, no tool, for indoor installation
IECM90C	Series IEC (no tool), Ø 5,1 90° male, for indoor installation
IECMC703	Serie IEC Compression, male, for outdoor installation

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