

Description

Outdoor drop coaxial cable - 75 Ohm
Outdoor installation cable (Screening Class A)

Coaxial Cables

CAVEL®

since 1968

Data Sheet

11/50FC



Ø	1,13	4,80	4,90	5,38		7,30
	(Cu)	(PEG)	(Cu/Pet)	(Cu)	(Jelly2)	(PE)

Construction data

Inner conductor of plain copper	(Cu)	1,13 ± 0,02 mm
Dielectric of physical foam polyethylene	(PEG)	4,80 ± 0,10 mm
Water repellent sealing (dielectric)	(Jelly1)	
Copper/Polyester tape longitudinally overlapped	(Cu/Pet)	
Braid of annealed copper wires	(Cu)	
Braid optical coverage (IEC 96-1)		60 %
Tracer Identifier	Year + Flag	
Water repellent sealing (sheath)	(Jelly2)	
Diameter under Sheath		5,38 mm
Outer sheath of Polyethylene - black - with carbonblack	(PE)	7,30 ± 0,10 mm

Printed each meter by yellow ink-jet :

CAVEL 1.1/5.0 FC MADE IN ITALY 75 Ohm EN50117-2-5 CEI-UNEL 36762 C-4 (U0 =400V) ss/aa m

(ss=week, aa=year) (m=meter marking)

Electrical data

Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Factor		85 %	
Inner conductor resistance		18	Ohm/km
Outer conductor resistance		13,50	Ohm/km
Loop resistance		31,50	Ohm/km
Insulation voltage of the sheath (spark test)		8	kV
Maximum current (I _{eff})		8	A

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)

30 - 1000 MHz	>85 dB
1000 - 2000 MHz	>85 dB
2000 - 3000 MHz	>70 dB

Transfer impedance

5 - 30 MHz < 0,5 mOhm/m

ITALIANA CONDUTTORI s.r.l.

Viale Zanotti 90 I - 27027 Gropello Cairoli
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Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,50	862	16,80
10	2,10	1000	17,90
30	2,90	1750	24,80
50	3,80	2150	27,30
200	7,90	2400	29,10
300	9,70	3000	33,00
470	12,00		

Mechanical data

Weight of copper conductors	22,36	kg/km	
Total weight of cable	49,46	kg/km	
Minimum bending radius (single/repetead bending)	50	mm	
Maximum cable pulling strength	200	N	
Fire Load	1.151	MJ/km	320 kWh/km

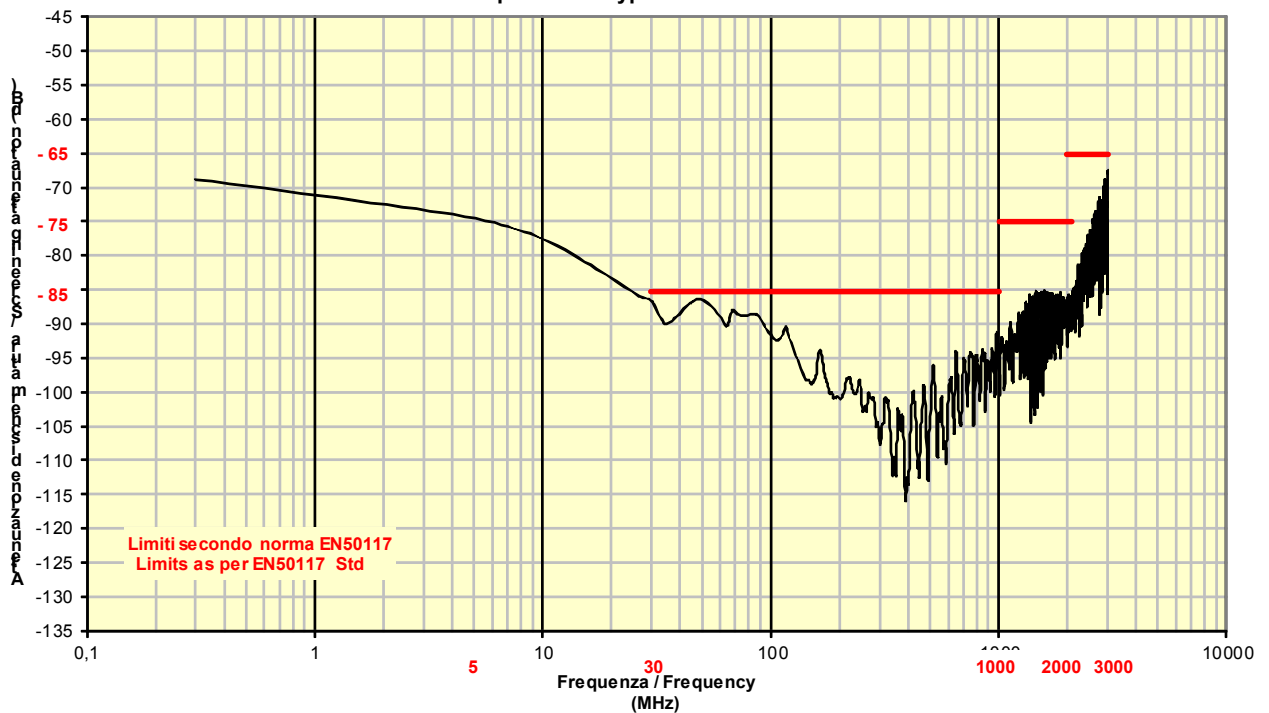
Standards

EN 50117-2-5

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

Cavo tipo / Cable type : 11/50 FC



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**Data Sheet****11/50FC****Connector**

FA125	Serie F Twist-On, F Twist-On, for indoor installation, nitin-plated brass - 30,0 mm x 12,0 mm
F125A	Series F Crimp, F Crimp, for indoor installation, nitin-plated brass - 24,0 mm x 12,0 mm
BNCC703	Series BNC Compression, BNC Compression, for outdoor installation, nitin-plated brass - 35,0 mm x 14,0 mm
FC703	Series F Compression, F Compression, for outdoor installation, nitin-plated brass - 30,0 mm x 12,0 mm
FC7.0QM	Series F Compression, Quick Mount, for outdoor installation
IEFC703	Serie IEC Compression, female, no tool, for outdoor installation
IECMC703	Serie IEC Compression, male, for outdoor installation
FM-21	Series F, male, for outdoor and underground installation, nitin-plated brass - 48,5 mm x 15,5 mm

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