

Description

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

Coaxial Cables

CAVEL®

since 1968

Data Sheet

RP705B

Ø	1,13	4,75	4,90	5,38	6,80
	(Cu)	(PEG)	(Al/Pet)	(Al)	(PVC)

Standards

EN 50117-2-4

Fire-Resistance Rating

IEC 60332-1

Construction data

Inner conductor of plain copper	(Cu)	Ø 1,13 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 4,75 ± 0,10	mm
Aluminium/Polyester tape longitudinally overlapped	(Al/Pet)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of aluminium wires	(Al)		
Braid optical coverage (IEC 96-1)		43	%
Diameter under Sheath		5,38	mm
Outer sheath of Polyvinylchloride - white (PVC) - lead-free	(PVC)	Ø 6,80 ± 0,10	mm

Printed each meter by blue ink-jet :

CAVEL RP705B 17VA_tC MADE IN ITALY 75 Ohm EN50117-2-4 Class A+ CEI-UNEL 36762 C-4 (U₀ = 400V)
* LTE PROTECTION * ss/aa - m

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

Physical data

Weight of copper conductors		8,85	kg/km
Total weight of cable		37,72	kg/km
Minimum bending radius (single/repeated bending)		35/70	mm
Maximum cable pulling strength		150	N
Fire Load	651 MJ/km	181	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
Structural return loss (SRL)			
5 - 470 MHz	>30 dB		
470 - 1000 MHz	>28 dB		
1000 - 2000 MHz	>26 dB		
2000 - 3000 MHz	>22 dB		

ITALIANA CONDUTTORI s.r.l.

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Tel +39-382.815150 Fax +39-0382.814212

Date

29/02/2016

Responsible

Albero Scardovi

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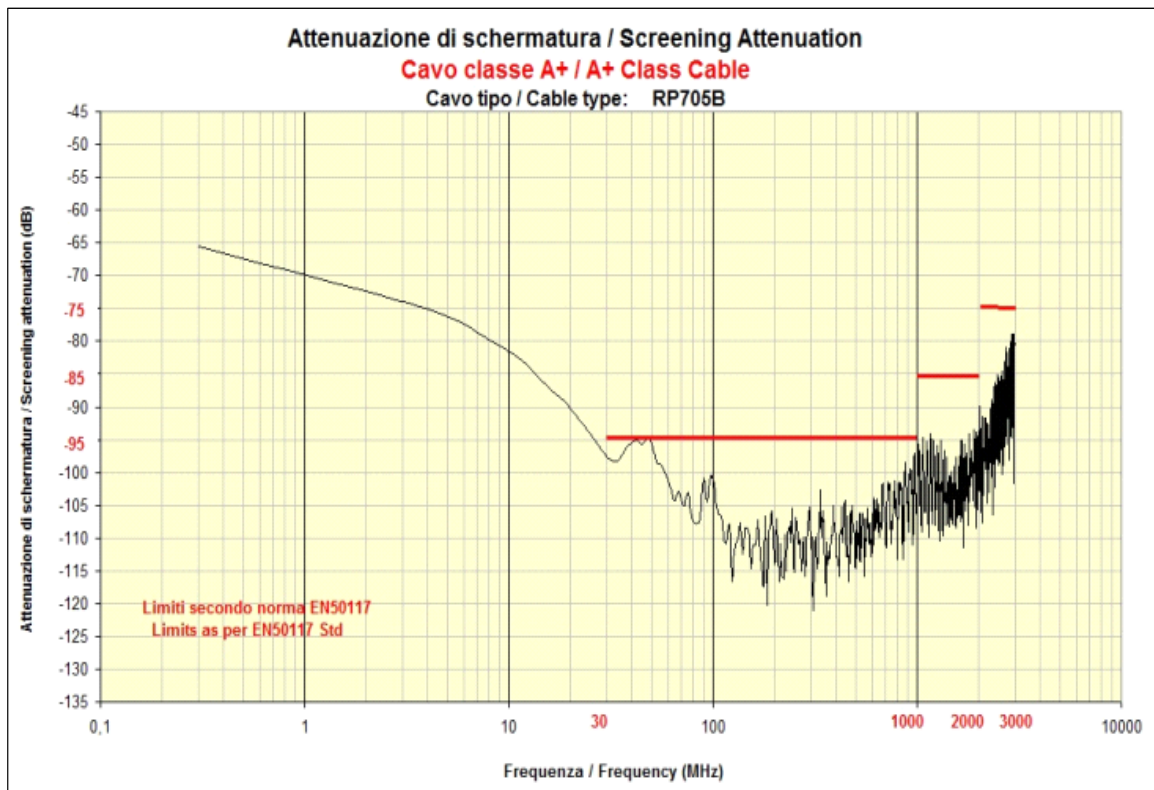
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Screening Attenuation (SA)	SA-Class A+	Shield Transfer Impedance (Zt)	Zt-Class B
30 - 1000 MHz	>95 dB	5 - 30 MHz	< 14 mOhm/m
1000 - 2000 MHz	>90 dB		
2000 - 3000 MHz	>80 dB		

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,50	800	16,60
10	2,00	1000	18,70
30	3,10	1750	25,30
50	4,00	2150	28,90
200	8,10	2400	30,10
300	10,00	3000	35,00
470	12,50		



Connectors

- F90** Series F Crimp, F Crimp, for indoor installation
- FA703** Serie F Twist-On, F Twist-On, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
- FA17** Serie F Twist-On, F Twist-On, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
- F703** Series F Crimp, F Crimp, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
- IECF5.1C** Series IEC (no tool), female, no tool, for indoor installation
- IECM5.1C** Series IEC (no tool), male, no tool, for indoor installation
- IECF90C** Series IEC (no tool), Ø 5,1 90° female, for indoor installation

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IECM90C	Series IEC (no tool), Ø 5,1 90° male, for indoor installation
FCPO5.1C	Series F Compression, Ø 5,1 Push-On, for outdoor installation, nitin-plated brass
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
IECF703	Serie IEC Compression, female, no tool, for outdoor installation
IECMC703	Serie IEC Compression, male, for outdoor installation
BNCC703	Series BNC Compression, BNC Compression, for outdoor installation, nitin-plated brass - 35,0 mm x 14,0 mm

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