

Description

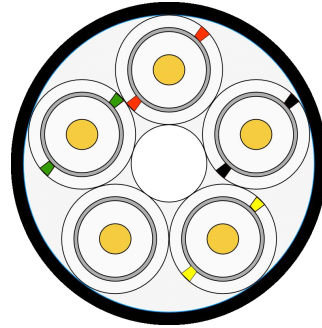
Multipair coaxial cable - 75 Ohm

Coaxial Cables

CAVEL[®]

since 1968

Data Sheet

5X17VATCM**Construction data**

Polyester film spirally wound (Pet)

Attached Data Sheet

17VATC

Sheath Colour

white (PVC)
 white with two black bands (PVC)
 white with two yellow bands (RAL 1021)
 white with two green bands (RAL 6018)
 white with two red bands (RAL 3000)

Central Filler, leadfree	(PVC) white	4,80	mm
Outer sheath of Thermoplastic material black halogen free and flame retardant	(LSZH)	20,00 ± 0,25	mm
Metallic Suspension Cable of zinc-plated steel	(FeZn)	Ø 0,40	mm

Printed each meter by yellow ink-jet :

CAVEL 5x17VAtCM/PH POUR INTERIEUR-EXTERIEUR MADE IN ITALY EN50117-2-5 CEI-UNEL 36762 C-4 (U0 =400V) CLASSE A (ss,aa)

(ss=week, aa=year)

Mechanical data

Weight of copper conductors	72,95		
Total weight of cable	362,46		
Fire Load	5.921	MJ/km	1.645 kWh/km

Standards

EN 50117-2-5

ITALIANA CONDUTTORI s.r.l.

Viale Zanotti 90 I - 27027 Gropello Cairoli
 Tel +39-382.815150 Fax +39-0382.814212

Date

13/11/2008

Responsible

PierPaolo Piccinini

Description

Multipair coaxial cable - 75 Ohm

Coaxial Cables

CAVEL[®]

since 1968

Data Sheet

5X17VATCM**Connector**

FA17	Serie F Twist-On, F Twist-On, 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
F703	Series F Crimp, F Crimp, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
FR703	Series F Crimp, F crimp, "Rapid", for indoor installation
F90	Series F Crimp, F Crimp, for indoor installation
BNCC703	Series BNC Compression, BNC Compression, for outdoor installation, nitin-plated brass - 35,0 mm x 14,0 mm
IECF90C	Series IEC (no tool), Ø 5,1 90° female, for indoor installation
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
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
IECF5.1C	Series IEC (no tool), female, no tool, for indoor installation
IECM5.1C	Series IEC (no tool), male, no tool, for indoor installation
IECF703	Serie IEC Compression, female, no tool, for outdoor installation
IECMC703	Serie IEC Compression, male, for outdoor installation

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Description

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



Data Sheet

17VATC
 5X17VATCM



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

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)	
Aluminium/Polyester/Aluminium tape longitudinally overlapped	(Al/Pet/Al)	
Braid of tinned copper wires	(CuSn)	
Braid optical coverage (IEC 96-1)		45 %
Diameter under Sheath		5,30 mm
Outer sheath of Polyvinylchloride - white (PVC) - lead-free	(PVC)	6,80 ± 0,10 mm

Printed each meter by blue ink-jet :

CAVEL 17VAtC/PH MADE IN ITALY EN50117-2-4 CLASSE A CEI-UNEL 36762 C-4 (U0 =400V) ss/aa 75 Ohm - 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		22	Ohm/km
Loop resistance		40	Ohm/km
Insulation voltage of the sheath (spark test)		3	kV
Maximum current (Ieff)		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	>80 dB
2000 - 3000 MHz	>70 dB

Transfer impedance

5 - 30 MHz < 1,5 mOhm/m

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Date

27/02/2012

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Description

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



Data Sheet

17VATC
 5X17VATCM

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,60	800	16,40
10	2,10	862	17,10
30	3,20	1000	18,50
50	4,10	1750	24,90
200	7,90	2150	27,90
300	9,80	2400	29,60
470	12,40	3000	33,40

Mechanical data

Weight of copper conductors	14,45	kg/km
Total weight of cable	40,42	kg/km
Minimum bending radius (single/repetead bending)	35/70	mm
Maximum cable pulling strength	150	N

Standards

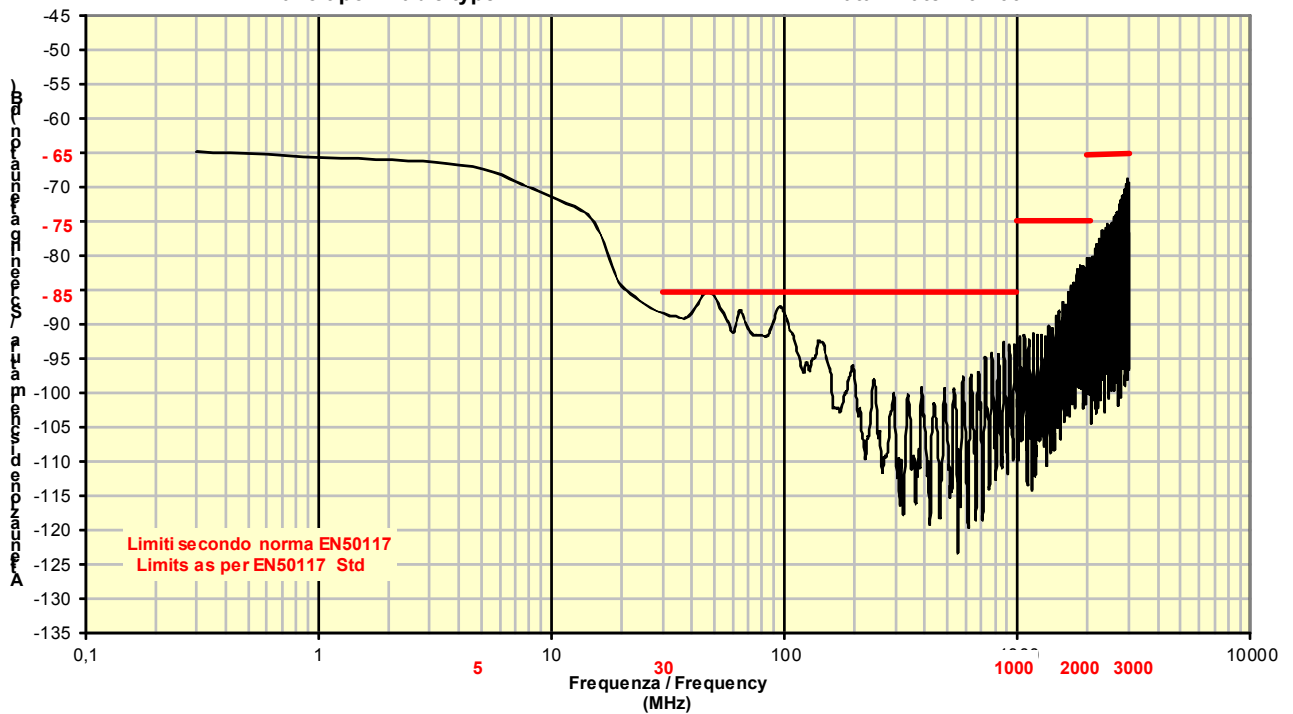
EN 50117-2-4

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

Cavo tipo / Cable type : 17 VATC

Data / Date : 12/2007



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