

## Description

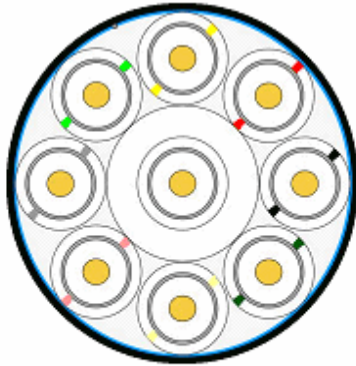
Multipair coaxial cable - 75 Ohm

Coaxial Cables

**CAVEL**<sup>®</sup>

since 1968

## Data Sheet

**9X17VATCM****Construction data**

Polyester film spirally wond (Pet)

**Attached Data Sheet****Sheath Colour**

17VATC\_C

white (PVC)

17VATC

white with two gray bands (RAL 7001)

white with two yellow bands (RAL 1021)

white with two yellow bands (RAL 1013)

white with two green bands (RAL 6018)

white with two green bands (RAL 6029)

white with two red bands (RAL 3000)

white with two red bands (RAL 3015)

white with two black bands (PVC)

Diameter under sheath 24,85 ± 0,20 mm

Outer sheath of Thermoplastic material - black - halogen free and flame retardant (LSZH) 26,20 ± 0,30 mm

Metallic Suspension Cable of zinc-plated steel (FeZn) Ø 0,40 mm

Printed each meter by yellow ink-jet :

**CAVEL 9X17VAtCm/PH POUR INTERIEUR-EXTERIEUR MADE IN ITALY EN50117-2-5 CEI-UNEL 36762 C-4 (U0 =400V) CLASSE A SS/AA 75 Ohm - m**

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

**Mechanical data**

Weight of copper conductors	132,32	kg/km	
Total weight of cable	580,77	kg/km	
Fire Load	9.626	MJ/km	2.674 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

28/10/2008

## Responsible

PierPaolo Piccinini

## Description

Multipair coaxial cable - 75 Ohm

Coaxial Cables

**CAVEL**<sup>®</sup>

since 1968

## Data Sheet

**9X17VATCM****Connector**

<b>IECFC703</b>	Serie IEC Compression, female, no tool, for outdoor installation
<b>IECMC703</b>	Serie IEC Compression, male, for outdoor installation
<b>FA17</b>	Serie F Twist-On, F Twist-On, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
<b>FA703</b>	Serie F Twist-On, F Twist-On, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
<b>F703</b>	Series F Crimp, F Crimp, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
<b>FR703</b>	Series F Crimp, F crimp, "Rapid", for indoor installation
<b>F90</b>	Series F Crimp, F Crimp, for indoor installation
<b>BNCC703</b>	Series BNC Compression, BNC Compression, for outdoor installation, nitin-plated brass - 35,0 mm x 14,0 mm
<b>IECF90C</b>	Series IEC (no tool), Ø 5,1 90° female, for indoor installation
<b>IECM90C</b>	Series IEC (no tool), Ø 5,1 90° male, for indoor installation
<b>FCPO5.1C</b>	Series F Compression, Ø 5,1 Push-On, for outdoor installation, nitin-plated brass
<b>FC703</b>	Series F Compression, F Compression, for outdoor installation, nitin-plated brass - 30,0 mm x 12,0 mm
<b>FC7.0QM</b>	Series F Compression, Quick Mount, for outdoor installation
<b>IECF5.1C</b>	Series IEC (no tool), female, no tool, for indoor installation
<b>IECM5.1C</b>	Series IEC (no tool), male, no tool, for indoor installation

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Date

**28/10/2008**

Responsible

**PierPaolo Piccinini**

## Description

Central cable / filler for multicoax cables

Coaxial Cables

CAVEL®

since 1968

## Data Sheet

17VATC\_C

9X17VATCM



Ø	1,13	4,80	4,90	5,30	6,80	11,40
	(Cu)	(PEG)	(Al/Pet/Al)	(CuSn)	(PVC)	(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
Inner sheath of Polyvinylchloride white (PVC) lead-free	(PVC)	6,80 ± 0,10 mm
Outer sheath of Polyvinylchloride - white (PVC) - lead-free	(PVC)	11,40 ± 0,10 mm

## 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)		0	KV
Maximum current (I <sub>eff</sub> )		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)			Transfer impedance
30 - 1000 MHz	>85 dB	5 - 30 MHz	< 1,5 mOhm/m
1000 - 2000 MHz	>80 dB		
2000 - 3000 MHz	>70 dB		

ITALIANA CONDUTTORI s.r.l.

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Date

20/12/2010

Responsible

Giuseppe Guastella

**Description**

Central cable / filler for multicoax cables

Coaxial Cables

**CAVEL**<sup>®</sup>

since 1968

**Data Sheet****17VATC\_C**

9X17VATCM

## 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

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**Date****20/12/2010****Responsible****Giuseppe Guastella**

## Description

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

Coaxial Cables

CAVEL®

since 1968

## Data Sheet

**17VATC**  
9X17VATCM



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 (I <sub>eff</sub> )		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 &lt; 1,5 mOhm/m

## ITALIANA CONDUTTORI s.r.l.

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Tel +39-382.815150 Fax +39-0382.814212

## Date

27/02/2012

## Responsible

PierPaolo Piccinini

Description

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



Data Sheet

**17VATC**  
 9X17VATCM

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**

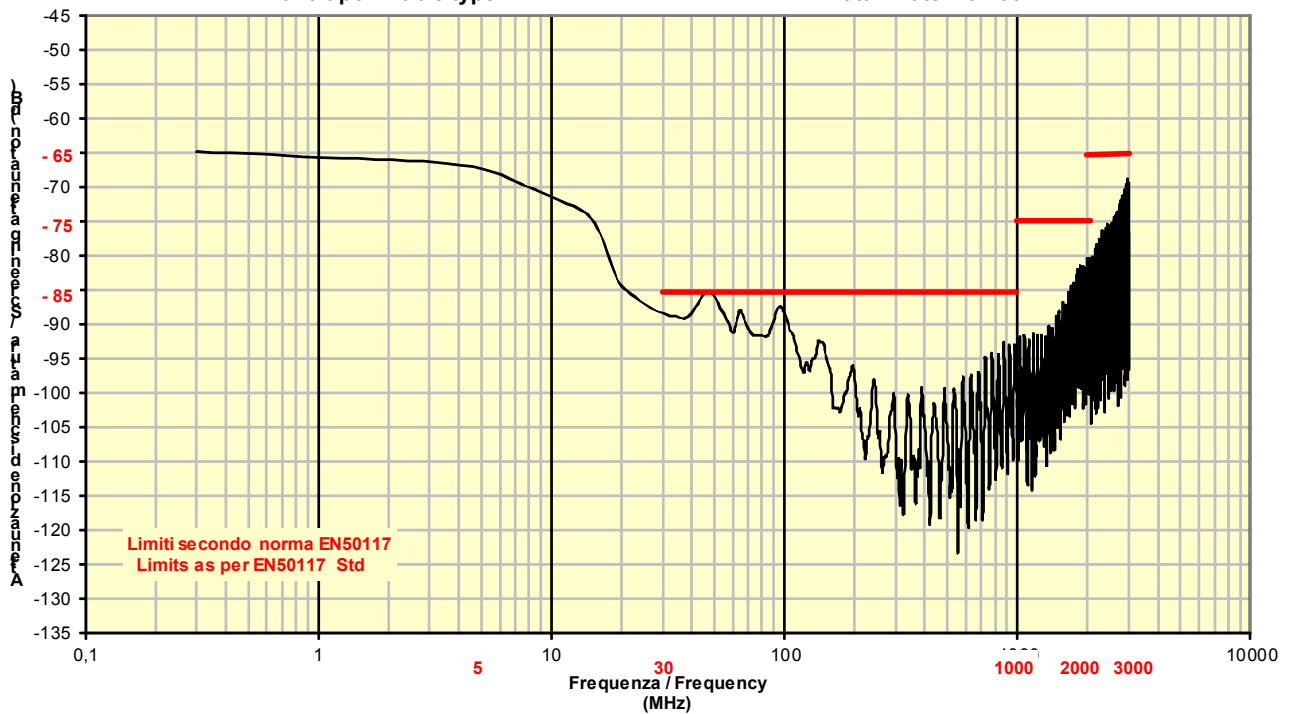
EN 50117-2-4

**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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Date

27/02/2012

Responsible

PierPaolo Piccinini

**Description**

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

**Data Sheet**

**17VATC**  
 9X17VATCM

**Connector**

<b>FA17</b>	Serie F Twist-On, F Twist-On, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
<b>FA703</b>	Serie F Twist-On, F Twist-On, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
<b>F703</b>	Series F Crimp, F Crimp, for indoor installation, nitin-plated brass - 21,0 mm x 12,0 mm
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<b>IECF90C</b>	Series IEC (no tool), Ø 5,1 90° female, for indoor installation
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<b>IECF703</b>	Serie IEC Compression, female, no tool, for outdoor installation
<b>IECMC703</b>	Serie IEC Compression, male, for outdoor installation
<b>IECF5.1C</b>	Series IEC (no tool), female, no tool, for indoor installation
<b>IECM5.1C</b>	Series IEC (no tool), male, no tool, for indoor installation

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**Date**

**27/02/2012**

**Responsible**

**PierPaolo Piccinini**