

## Description

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

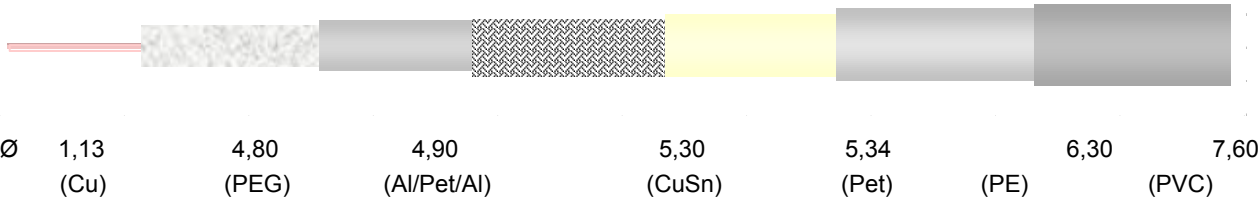
Coaxial Cables

CAVEL®

since 1968

## Data Sheet

SAT703-2G



## 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 %
Outer non-migrating Polyester tape longitudinally overlapped	(Pet)	20 x 15 µm
Diameter under Sheath		5,34 mm
Inner sheath of Polyethylene neutral	(PE)	6,30 ± 0,10 mm
Outer sheath of Polyvinylchloride - grey (RAL 7035) - lead-free	(PVC)	7,60 ± 0,10 mm

Printed each meter by blue ink-jet :

CAVEL SAT 703 2G 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		22	Ohm/km
Loop resistance		40	Ohm/km
Insulation voltage of the sheath (spark test)		8	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	>80 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.

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

## Date

27/02/2012

## Responsible

PierPaolo Piccinini

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Attenuation (at 20°C )

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

**Mechanical data**

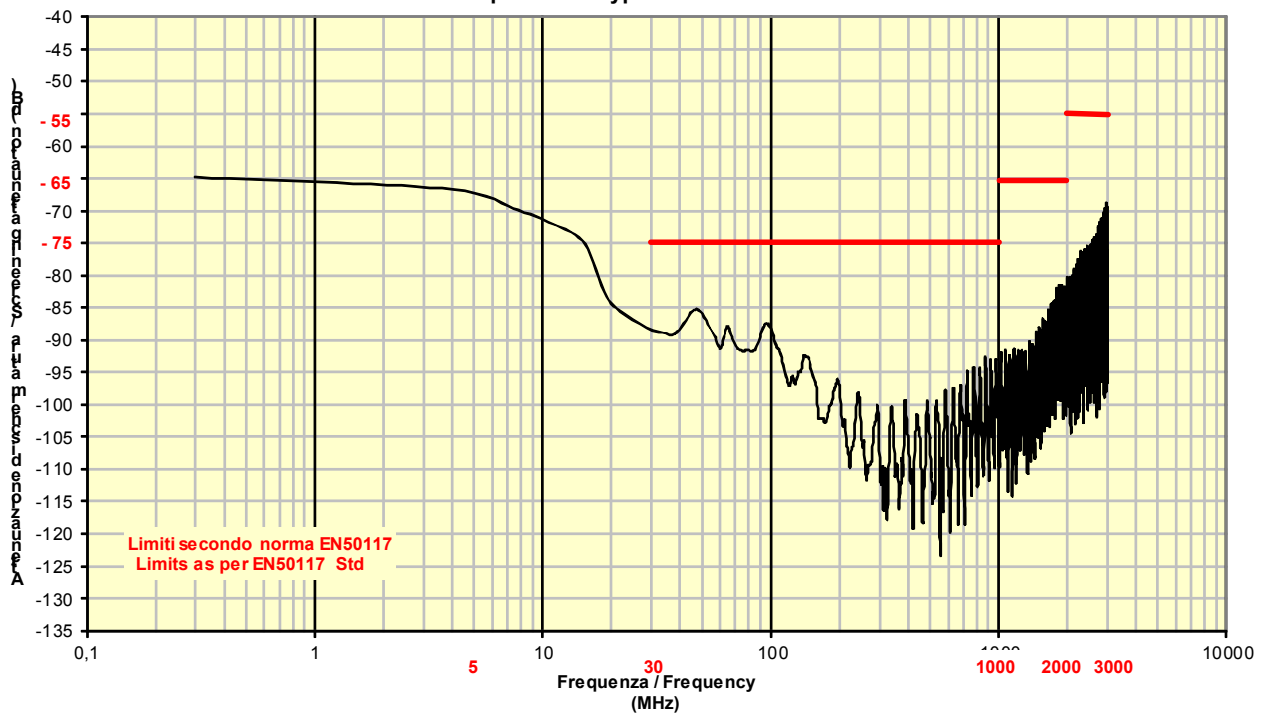
Weight of copper conductors	14,45	kg/km	
Total weight of cable	50,45	kg/km	
Minimum bending radius (single/repetead bending)	40/80	mm	
Maximum cable pulling strength	150	N	
Fire Load	1.050	MJ/km	292 kWh/km

**Standards**

EN 50117-2-5

**Attenuazione di schermatura / Screening Attenuation**

**Cavo classe B / B Class Cable**  
 Cavo tipo / Cable type : SAT7032G



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**Data Sheet****SAT703-2G****Connector**

<b>FA125</b>	Serie F Twist-On, F Twist-On, for indoor installation, nitin-plated brass - 30,0 mm x 12,0 mm
<b>F125A</b>	Series F Crimp, F Crimp, for indoor installation, nitin-plated brass - 24,0 mm x 12,0 mm
<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>FC703</b>	Series F Compression, F Compression, for outdoor installation, nitin-plated brass - 30,0 mm x 12,0 mm
<b>IECF703</b>	Serie IEC Compression, female, no tool, for outdoor installation
<b>IECM703</b>	Serie IEC Compression, male, for outdoor installation

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