

Description

Outdoor drop coaxial cable - 75 Ohm

Outdoor installation cable (Screening Class B)

Coaxial Cables

CAVEL®

since 1968

Data Sheet

SAT703-2G



Ø	1,13	4,80	4,90	5,30	5,34	6,30	7,60
	(Cu)	(PEG)	(Al/Pet/Al)	(CuSn)	(Pet)	(PE)	(PVC)

Class CPR acc. to UE 305/2011 (DoP)

F_{ca}

The cable can be used in the field of application of the Construction Product Regulation (DoP) UE nr. 305/2011 for the class of performance specified on the related product label.

Standards

EN 50117-2-5

Construction data

Inner conductor of plain copper	(Cu)	Ø 1,13 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 4,80 ± 0,10	mm
Aluminium/Polyester/Aluminium tape longitudinally overlapped	(Al/Pet/Al)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of tinned copper wires	(CuSn)		
Braid optical coverage (IEC 96-1)		45	%
Outer non-migrating Polyester tape longitudinally overlapped	(Pet)	20 x 15	mm/µm
Diameter over Braid		Ø 5,34	mm
Inner sheath of Polyethylene neutral	(PE)	6,30 ± 0,10	mm
Outer sheath of Polyvinylchloride - grey (RAL 7035) - lead-free	(PVC)	Ø 7,60 ± 0,10	mm
Printed each meter by blue ink-jet :			

CAVEL SAT 703 2G MADE IN ITALY 75 Ohm Euroclass Fca EN50117-2-5 CEI-UNEL 36762 C-4 (U0 = 400V)
gggaan m

(gggaan=batch number m=meter marking)

Physical data

Weight of copper conductors	14,45	kg/km
Total weight of cable	50,45	kg/km
Minimum bending radius (single/repeated bending)	40/80	mm
Maximum cable pulling strength	150	N
Minimum installation temperature	-5	°C
Operating temperature	-40 / +80	°C

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)		8	kV

ITALIANA CONDUTTORI s.r.l.

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

Date

20/12/2017

Responsible

Alberto Scardovi

Description

Outdoor drop coaxial cable - 75 Ohm

Outdoor installation cable (Screening Class B)



Data Sheet

SAT703-2G

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)

SA-Class B

Shield Transfer Impedance (Zt)

Zt-Class C

30 - 1000 MHz	>80 dB
1000 - 2000 MHz	>80 dB
2000 - 3000 MHz	>65 dB

5 - 30 MHz

< 23 mOhm/m

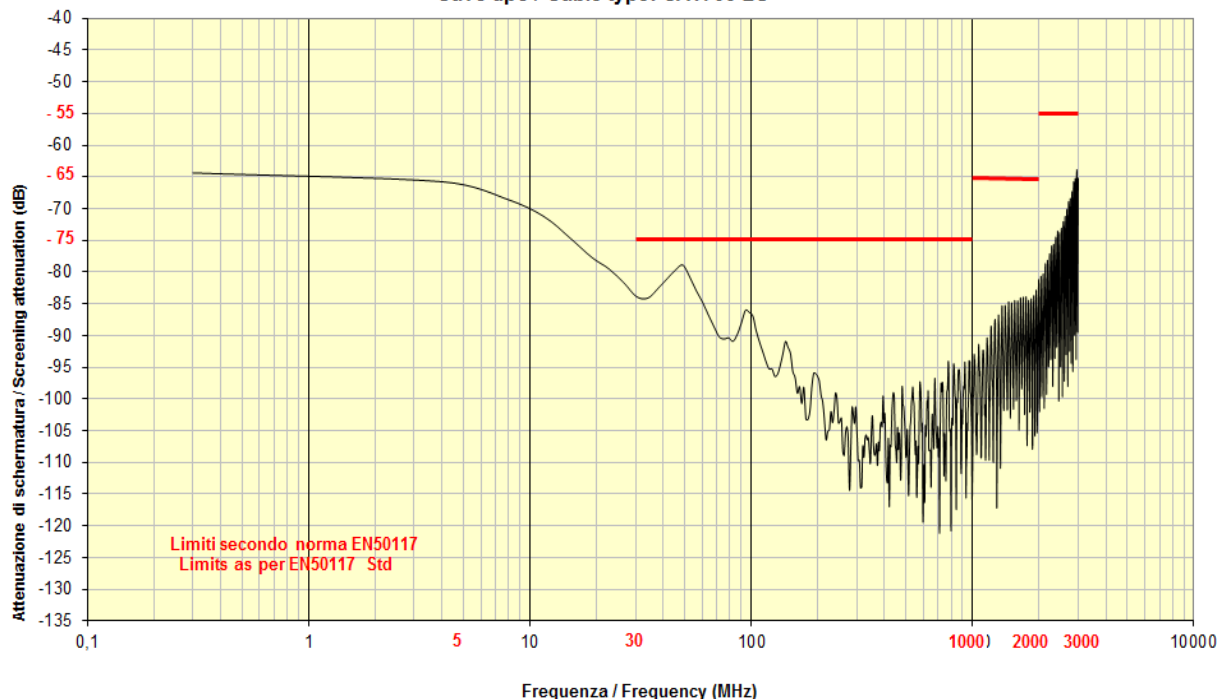
Attenuation (at 20°C)

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		

Attenuazione di schermatura / Screening Attenuation

Cavo classe B / B Class Cable

Cavo tipo / Cable type: SAT703-2G



Connectors

BNCC703

Series BNC Compression, BNC Compression, for OUTDOOR installation, nitin-plated brass - 35,0 mm x 14,0 mm

ITALIANA CONDUTTORI s.r.l.

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

Date

20/12/2017

Responsible

Alberto Scardovi

Description

Outdoor drop coaxial cable - 75 Ohm

Outdoor installation cable (Screening Class B)

**Data Sheet****SAT703-2G****↑↑↑ Connectors**

F125A	Series F Crimp, F Crimp, for INDOOR installation, nitin-plated brass - 24,0 mm x 12,0 mm
FA125	Series F Twist-On, F Twist-On, for INDOOR installation, nitin-plated brass - 30,0 mm x 12,0 mm
FC703	Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass - 30,0 mm x 12,0 mm
IECF90C	Series IEC (toolless), Ø 5,1 90° female, for INDOOR installation
IECF703	Serie IEC Compression, female, no tool, for OUTDOOR installation
IECM90C	Series IEC (toolless), Ø 5,1 90° male, for INDOOR installation
IECM703	Serie IEC Compression, male, for OUTDOOR installation

ITALIANA CONDUTTORI s.r.l.Viale Zanotti 90 I - 27027 Gropello Cairoli
Tel +39-382.815150 Fax +39-0382.814212**Date****20/12/2017****Responsible****Alberto Scardovi**