

Description

Cable for Broadband Distribution Networks

75 Ohm - Class A+

Coaxial Cables

CAVEL®

since 1968

Data Sheet

TS613C



Ø	1,00	4,60	4,77	5,17	5,29	6,90
	(Cu)	(PEG)	(Al/Pet/Al/Sur)	(CuSn)	(Al/Pet)	(LSZH-FR)

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

Cca s1a,d1,a1

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 50117-2-4

Reaction to Fire

EN50575

Application

DOCSIS 3.1 (Data Over Coax System)

CATV

4K-UHD

Indoor (+ Outdoor)

Construction data

Inner conductor of plain copper	(Cu)	Ø 1,00 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 4,60 ± 0,10	mm
Aluminum/Polyester/Aluminum/Surlyne tape longitudinally overlapped and bonded to the dielectric	(Al/Pet/Al/Sur)		
Braid of tinned copper wires	(CuSn)		
Braid optical coverage (IEC 96-1)		73	%
Outer Aluminum/Polyester tape longitudinally overlapped	(Al/Pet)	20 x 30/19	mm/µm
Diameter over Braid		Ø 5,29	mm
Outer sheath of Thermoplastic material - white - halogen-free, low smoke, flame retardant	(LSZH-FR)	Ø 6,90 ± 0,15	mm

Printed each meter by blue ink-jet :

CAVEL TS 613 C MADE IN ITALY 75 Ohm Euroclass Cca s1a,d1,a1 EN50117-2-4 Class A+ CEI-UNEL 36762

C-4 (U0 = 400V) ULTRA HD / 4K gggaa(n) m

(gggaan=batch number m=meter marking)

Physical data

Weight of copper conductors	17,37	kg/km
Total weight of cable	51,70	kg/km
Minimum bending radius (single/repetead bending)	35/70	mm
Maximum cable pulling strength	120	N
Minimum installation temperature	-5	°C
Operating temperature	-40 / +80	°C

Electrical data

ITALIANA CONDUTTORI s.r.l.

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

Date

08/05/2018

Responsible

Alberto Scardovi

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Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		54 ± 2	pF/m
Velocity Ratio		82 %	
Inner conductor resistance		22,50	Ohm/km
Outer conductor resistance		10,40	Ohm/km
Loop resistance		32,90	Ohm/km
Sheat Insulation voltage (spark test)		3	kV
Maximum current (Ieff)		6	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 A+	Transfer Impedance (Zt)	Zt-Class A++
30 - 1000 MHz	> 98 dB	5 - 30 MHz	< 0,9 mOhm/m
1000 - 2000 MHz	> 85 dB		
2000 - 3000 MHz	> 75 dB		

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,50	862	18,50
10	2,20	1000	20,10
30	3,40	1750	27,30
50	4,40	2150	30,60
200	8,50	2400	32,60
300	10,60	3000	37,10
470	13,40		

Connectors**FC7.0QM** Series F Compression, Quick Mount, for OUTDOOR installation**FCEM7.0C** Series F Compression, F Compression, for OUTDOOR installation, nitin-plated brass**ITALIANA CONDUTTORI s.r.l.**

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