

Description

Distribution and trunk coaxial cable for burial installation - 75 Ohm
 Underground installation cable (Screening Class A)



Data Sheet

17/73FC



Ø	1,63	7,20	7,30	7,78		10,10
	(Cu)	(PEG)	(Cu/Pet)	(Cu)	(Jelly2)	(PE)

Standards

EN 50117-2-3

Construction data

Inner conductor of plain copper		(Cu)	Ø 1,63 ± 0,03	mm
Dielectric of physical foam polyethylene	0,03	(PEG)	Ø 7,20 ± 0,10	mm
Copper/Polyester tape longitudinally overlapped		(Cu/Pet)		
Water repellent sealing (dielectric)		(Jelly1)		
Braid of annealed copper wires		(Cu)		
Braid optical coverage (IEC 96-1)			64	%
Tracer Identifier		Year + Flag		
Water repellent sealing (sheath)		(Jelly2)		
Diameter under Sheath			7,78	mm
Outer sheath of Polyethylene - black - with carbonblack		(PE)	Ø 10,10 ± 0,15	mm
Printed each meter by yellow ink-jet :				

CAVEL 1.7/7.3 FC MADE IN ITALY 75 Ohm EN50117-2-3 CEI-UNEL 36762 C-4 (U0 =400V) ss/aa m

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

Physical data

Weight of copper conductors			39,99	kg/km
Total weight of cable			88,19	kg/km
Minimum bending radius (single/repetead bending)			100	mm
Maximum cable pulling strength			300	N
Fire Load	2.119	MJ/km	589	kWh/km

Electrical data

Characteristic impedance	200 MHz	75 ± 2	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Ratio		85 %	
Inner conductor resistance		8,50	Ohm/km
Outer conductor resistance		9,50	Ohm/km
Loop resistance		18	Ohm/km
Sheat Insulation voltage (spark test)		8	kV
Maximum current (leff)		16	A
Structural return loss (SRL)			
5 - 470 MHz		>30 dB	
470 - 1000 MHz		>28 dB	
1000 - 2000 MHz		>23 dB	
2000 - 3000 MHz		>20 dB	

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Screening Attenuation (SA)	SA-Class A	Shield Transfer Impedance (Zt)	Zt-Class B
30 - 1000 MHz	>85 dB	5 - 30 MHz	< 7 mΩ/m
1000 - 2000 MHz	>85 dB		
2000 - 3000 MHz	>80 dB		

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,10	862	11,50
10	1,50	1000	12,40
30	1,90	1750	17,10
50	2,50	2150	19,20
200	5,30	2400	20,40
300	6,50	3000	23,30
470	8,30		

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

Cavo tipo / Cable type: 17/73 FC

