

Description

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



Data Sheet

27/115FC



2,70	11,50	11,60	12,20		15,00
(Cu)	(PEG)	(Cu/Pet)	(Cu)	(Jelly2)	(PE)

Constructive data

Inner conductor of plain copper	(Cu)	2,70 ± 0,10	mm
Dielectric of physical foam polyethylene	(PEG)	11,50 ± 0,15	mm
Water repellent sealing (dielectric)	(Jelly1)		
Copper/Polyester tape longitudinally overlapped	(Cu/Pet)		
Braid of annealed copper wires	(Cu)		
Braid optical coverage (IEC 96-1)		52 %	
Tracer Identifier	Year + Flag		mm
Water repellent sealing (sheath)	(Jelly2)		
Diameter under Sheath		12,20	mm
Outer sheath of Polyethylene - black - with carbonblack (Q4)	(PE)	15,00 ± 0,20	mm

Printed each meter by yellow ink-jet :

CCS TV 75 Ohm CAVEL 2.7/11.5 FC MADE IN ITALY EN50117-2-3 CEI-UNEL 36762 C-4 (U0 =400V) ss/aa m

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

Electrical data

Characteristic impedance (@ 200 MHz)	75 ± 2	Ohm
Capacitance (@1kHz)	52 ± 2	pF/m
Velocity factor	85 %	
Outer conductor resistance	5,80	Ohm/km
Loop resistance	9,20	Ohm/km
Insulation voltage of the sheath (spark test)	8	kV
Maximum current (Ieff)	25,00	A

Structural return loss (SRL)

5 - 470 MHz	>25 dB
470 - 1000 MHz	>24 dB
1000 - 2000 MHz	>23 dB
2000 - 3000 MHz	>22 dB

Screening attenuation (SA)

30 - 1000 MHz	>95 dB
1000 - 2000 MHz	>95 dB
2000 - 3000 MHz	>85 dB

Transfer impedance
 5 - 30 MHz 0,2 mOhm/m

ITALIANA CONDUTTORI s.r.l.

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

Date

10/10/2005

Responsible

PierPaolo Piccinini

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Coaxial Cables

CAVEL®

since 1968

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Attenuation (at 20°C):

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	0,80	862	7,70
10	1,10	1000	8,40
30	1,30	1750	11,40
50	1,70	2150	12,80
200	3,40	2400	13,60
300	4,20	3000	15,40
470	5,50		

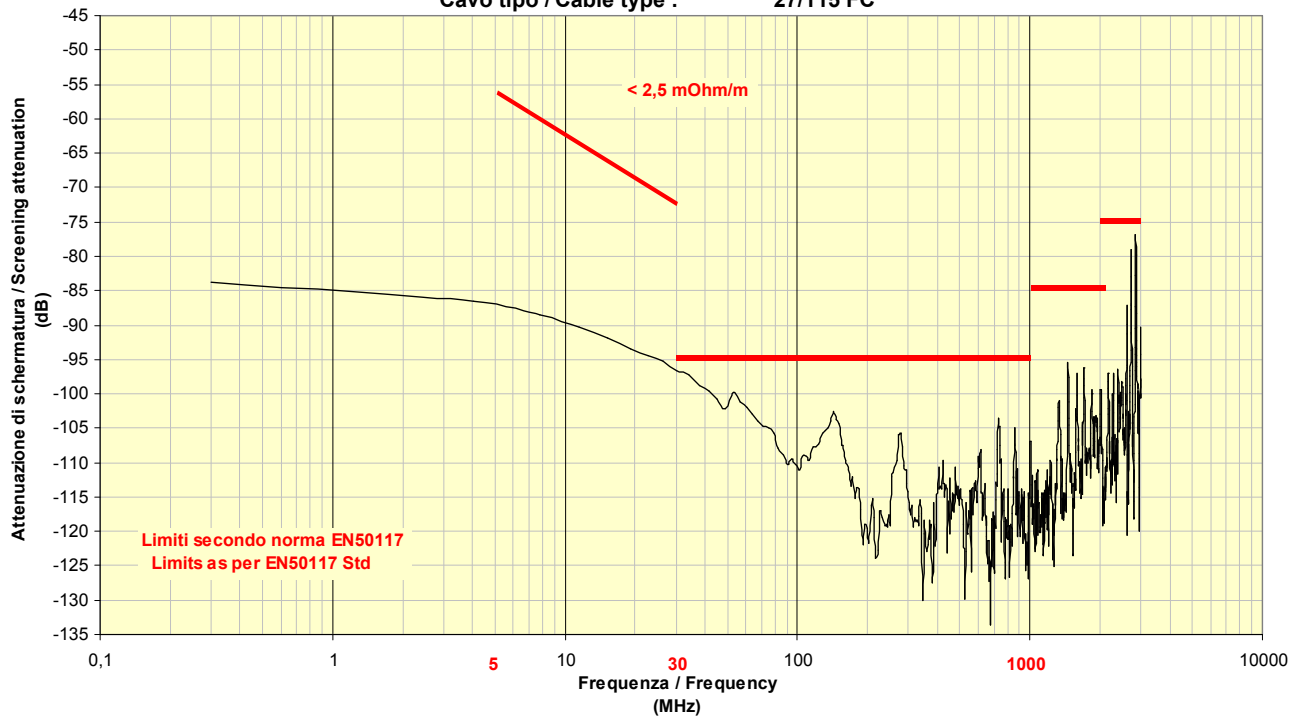
Mechanical data

Weight of copper conductors	84,40	kg/km
Total weight of cable	178,00	kg/km
Minimum bending radius (single/repetead bending)	200	mm
Max. cable pulling strenght	800	N

Attenuazione di schermatura / Screening Attenuation

Cavo classe A+ / A+ Class Cable

Cavo tipo / Cable type : 27/115 FC



Connector

FM-44	F male connector for outdoor and underground installation, nitin-plated brass - 65,5 x 25,0 mm
IEC14M-44	IEC male connector for outdoor and underground installation, nitin-plated brass - 75,0 x 25,0 mm
NM-44	N male connector for outdoor and underground installation, nitin-plated brass - 69,0 x 25,0 mm
5/8MU-44	5/8" connector for outdoor and underground installation, nitin-plated brass - 75,0 x 25,0 mm
3,5/12M-44	3,5/12" connector for outdoor and underground installation, nitin-plated brass - 75,0 x 25,0 mm

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