

Description

Double Shielded Coaxial Cable, for transport and distribution - 75 Ohm
Outdoor cable for hung-up installation (Screening attenuation - Class A)



Data Sheet

11/50AP

(FeZn) 1x1,25



Ø	1,13	4,80				13,20 x 7,30
	(Cu)	(PEG)	(Cu/Pet)	(Cu)	(Jelly2)	(PE)

Standards

EN50117-10-2

Application

Hung-up installation

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
Copper/Polyester tape longitudinally overlapped	(Cu/Pet)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of annealed copper wires	(Cu)		
Braid optical coverage (IEC 96-1)		59	%
Tracer Identifier	Year + Flag		
Water repellent sealing (sheath)	(Jelly2)		
Diameter over Braid		Ø 5,30	mm
Outer sheath of Polyethylene - black (RAL 9011) - with carbonblack	(PE)	Ø 13,20 x 7,30 ± 0,10	mm
Messenger rope of zinc-plated steel	(FeZn)	1x1,25	mm

Printed each meter by yellow ink-jet :

CAVEL 1.1/5.0 AP MADE IN ITALY 75 Ohm EN50117-10-2 SA Class A gggaa(n) m

(gggaan=batch number m=meter marking)

Messenger Maximum tensile strength	500	kg
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Physical data

Weight of copper conductors	20,50	kg/km
Total weight of cable	86,90	kg/km
Minimum bending radius (single/repeated bending)	35/70	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
Velocity Ratio		85 %	
Inner conductor resistance		18	Ohm/km
Outer conductor resistance		14,80	Ohm/km
Loop resistance		32,80	Ohm/km
Sheat Insulation voltage (spark test)		8	kV
Maximum current (Ieff)		8	A

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Date

31/07/2023

Responsible

A. Bergaglio

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11/50AP**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

30 - 1000 MHz	>85 dB
1000 - 2000 MHz	> 80 dB
2000 - 3000 MHz	> 65 dB

Transfer Impedance (Zt)

5 - 30 MHz

< 11 mΩ/m

Attenuation (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	1,50	690	14,50
10	2,10	1000	17,90
30	2,90	1750	24,80
50	3,80	2150	27,30
200	7,90	2400	29,10
300	9,70	3000	33,00
470	12,00		

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