

Description

Distribution and trunk coaxial cable with messenger rope - 75 Ohm
Outdoor cable for hung-up installation (Screening attenuation - Class A+)



Data Sheet

27/115AP

(FeZn) 7x0,80



Ø	2,70	11,50	11,60	12,20		22,50 x 15,00
	(Cu)	(PEG)	(Cu/Pet)	(Cu)	(Jelly2)	(PE)

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

Fca

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

EN50117-11-2

Reaction to Fire

EN50575

Application

CATV

Hung-up installation

Construction data

Inner conductor of plain copper	(Cu)	Ø 2,70 ± 0,10	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 11,50 ± 0,15	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)		52	%
Tracer Identifier	Year + Flag		
Water repellent sealing (sheath)	(Jelly2)		
Diameter over Braid		Ø 12,20	mm
Outer sheath of Polyethylene - black (RAL 9011) - with carbonblack	(PE)	Ø 22,50 x 15,00 ± 0,20	mm
Messenger rope of zinc-plated steel	(FeZn)	7x0,80	mm

Printed each meter by yellow ink-jet :

CAVEL 2.7/11.5 AP MADE IN ITALY 75 Ohm Euroclass Fca EN50117-11-2 SA Class A+ gggaa(n) m

(ggg=day)(aa=year)(n=batch) (m=meter marking)

Messenger Maximum tensile strength	500	kg
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Physical data

Weight of copper conductors	83,87	kg/km
Total weight of cable	222,09	kg/km
Minimum bending radius (single/repeated bending)	200	mm
Maximum cable pulling strength	800	N
Minimum installation temperature	-5	°C
Operating temperature	-40 / +80	°C

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Date

04/10/2022

Responsible

A. Bergaglio

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Electrical data

Characteristic impedance	200 MHz	75 ± 2	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Ratio		85 %	
Inner conductor resistance		3,40	Ohm/km
Outer conductor resistance		5,80	Ohm/km
Loop resistance		9,20	Ohm/km
Sheat Insulation voltage (spark test)		8	kV
Maximum current (I _{eff})		25	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)	SA-Class A+	Transfer Impedance (Z _t)	
30 - 1000 MHz	>95 dB	5 - 30 MHz	< 4 mΩ/m
1000 - 2000 MHz	>95 dB		
2000 - 3000 MHz	>75 dB		

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		

Connectors

5/8MU-44	5/8" connector, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 75,0 mm x 25,0 mm
CS27	Stripper for Distribution Cables, just for Trunk 27/115, Tools -
FM-TL444	Series F, male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 76,0 mm x 31,0 mm
IEC14M-44	Series IEC (toolless), male, for UNDERGROUND (Hardline) installation, nitin-plated brass - 75,0 mm x 25,0 mm
SR21-44	Adapter, for 11/50FC - 27/115, for UNDERGROUND (Hardline) installation

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