

**Description**

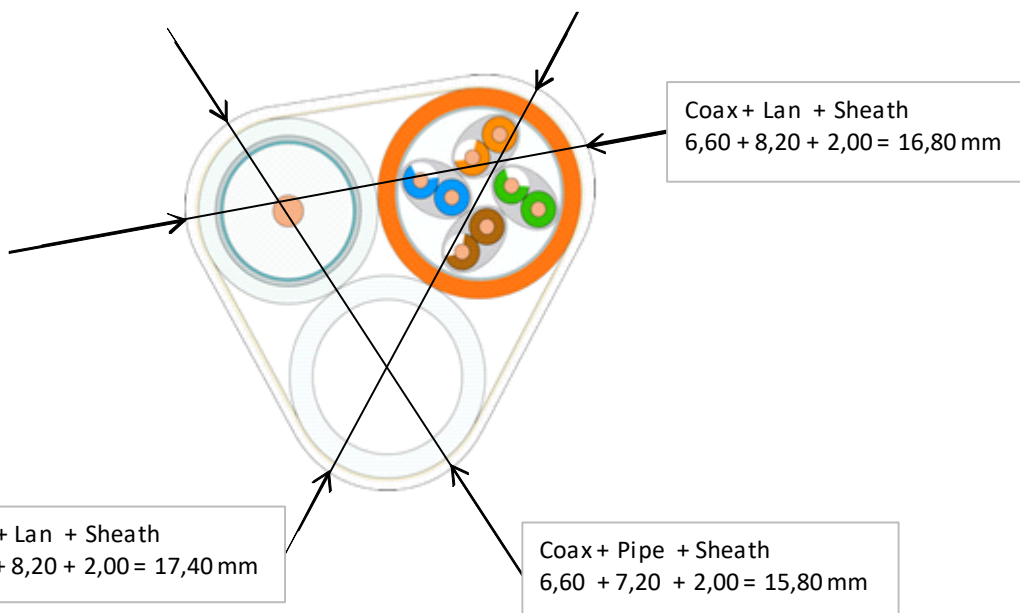
Hybrid multimedia cable

Coaxial, LAN and Loose Tube for Multimedia Applications



**Data Sheet**

**MM97A45ZHB**



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

**Eca**

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.

**Attached Data Sheet**

- RP913ZH
- LAN7A1500454ZHA
- PIPE

Tracer Identifier	Year + Flag		
Outer sheath of Thermoplastic material - white - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 17,40 x 16,80	mm
Printed each meter by blue ink-jet :			

**CAVEL MM97A45ZHB MADE IN ITALY MULTIMEDIA COAX RP913 ZH + LAN7A1500454 ZHA + LOOSE TUBE gggaa m**

(gggaan=batch number m=meter marking)

**Physical data**

Copper Content	49,00	kg/km
Total weight of cable	227,00	kg/km
Minimum installation temperature	-5	°C
Operating temperature	-25 / +80	°C

**ITALIANA CONDUTTORI s.r.l.**

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

**Date**

**17/07/2017**

**Responsible**

**Alberto Scardovi**

## Description

Outdoor drop coaxial cable - 75 Ohm

Outdoor installation cable (Screening Class A+)

Coaxial Cables

CAVEL®

since 1968

## Data Sheet

RP913ZH

MM97A45ZHB



Ø	1,13	4,75	4,90	5,30	6,60
	(Cu)	(PEG)	(Al/Pet)	(CuSn)	(LSZH)

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

Dca s2,d2,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 50117-2-5

## Reaction to Fire

IEC 60332-3-24

IEC 60754-2

IEC 61034

EN50575

## Construction data

Inner conductor of plain copper	(Cu)	Ø 1,13 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	Ø 4,75 ± 0,10	mm
Outer Aluminum/Polyester tape longitudinally overlapped	(Al/Pet)		
Water repellent sealing (dielectric)	(Jelly1)		
Braid of tinned copper wires	(CuSn)		
Braid optical coverage (IEC 96-1)		72	%
Diameter over Braid		Ø 5,30	mm
Outer sheath of Thermoplastic material - grey (RAL 7001) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 6,60 ± 0,10	mm

Printed each meter by blue ink-jet :

CAVEL RP913ZH MADE IN ITALY 75 Ohm Euroclass Dca s2,d2,a1 EN50117-2-5 Class A+ CEI-UNEL 36762

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

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

## Physical data

Weight of copper conductors	19,07	kg/km
Total weight of cable	45,95	kg/km
Minimum bending radius (single/repeated bending)	35/70	mm
Maximum cable pulling strength	150	N
Minimum installation temperature	-5	°C
Operating temperature	-25 / +80	°C

## Electrical data

Characteristic impedance	200 MHz	75 ± 3	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity Ratio		85 %	
Inner conductor resistance		18	Ohm/km
Outer conductor resistance		10,70	Ohm/km
Loop resistance		28,70	Ohm/km
Sheat Insulation voltage (spark test)		3	kV

## ITALIANA CONDUTTORI s.r.l.

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## Date

29/02/2016

## Responsible

Alberto Scardovi

**Description**

Outdoor drop coaxial cable - 75 Ohm

Outdoor installation cable (Screening Class A+)



**Data Sheet**

**RP913ZH**

MM97A45ZHB

Maximum current (I<sub>eff</sub>)

8

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 (Z<sub>t</sub>)

Z<sub>t</sub>-Class A+

30 - 1000 MHz	>110 dB
1000 - 2000 MHz	>105 dB
2000 - 3000 MHz	>90 dB

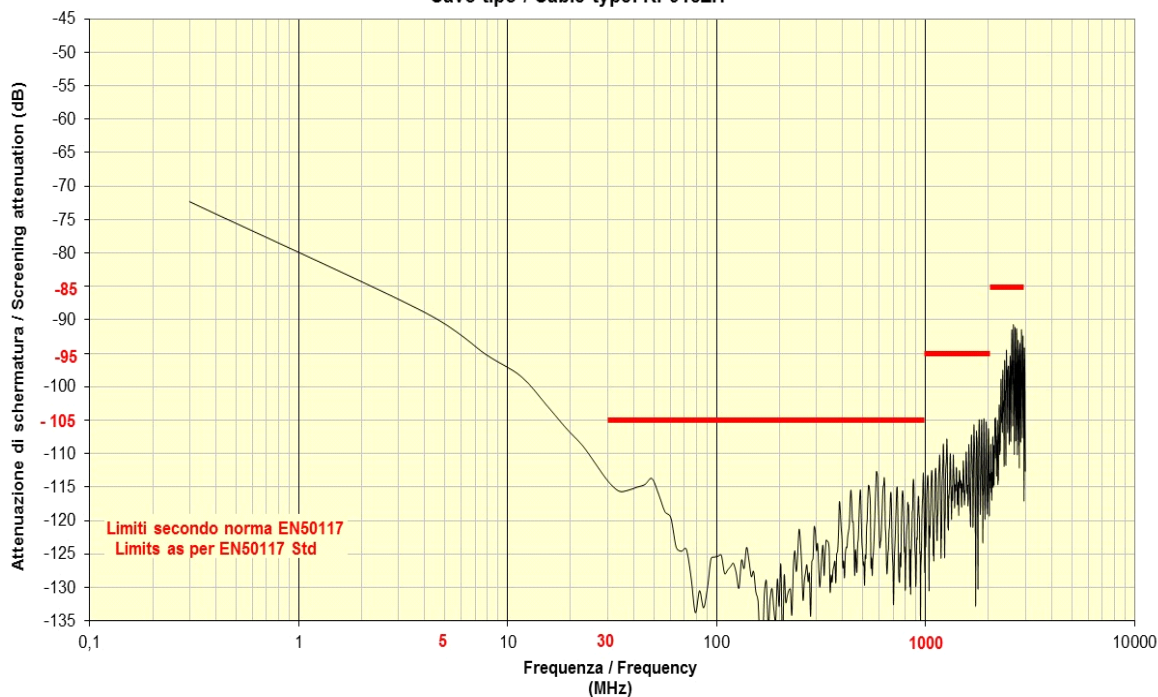
5 - 30 MHz

< 2,5 mOhm/m

**Attenuazione di schermatura / Screening Attenuation**

**Cavo classe A++ / A++ Class cable**

Cavo tipo / Cable type: RP913ZH



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Date

29/02/2016

Responsible

Alberto Scardovi

**Description**

Local Area Network Cable

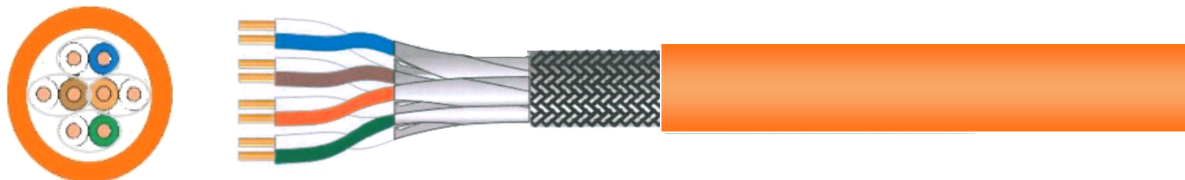
Cat. 7A S/FTP 4x2xAWG22/1 orange LSZH  
1500MHz - 40% Braid Coverage



**Data Sheet**

**LAN7A1500454ZHA**

MM97A45ZHB



Ø	0,64	1,52	2,08	8,20
	(Cu)	(PEG)	(Al/Pet)	(LSZH)

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

Dca 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**

ISO/IEC 11801 Class Fa	EN 50288-12-1 (fino a 1500 MHz)	EN50288-9-1	EN 50173-1
IEC 61156	EIA-TIA 568		

**Reaction to Fire**

EN50575

**Construction data**

Inner conductor of plain copper	(Cu)	Ø 0,64	mm
Insulation of physical foam Polyethylene	(PEG)	Ø 1,52	mm
Al/Pet foil shielded pairs, PiMF mode	(Al/Pet)		

**Composition**

Twisted pairs, coloured by Standard TIA-568A

Braid of tinned copper wires	(CuSn)		
Braid Optical Coverage		40	%
Diameter over Braid		Ø 2,08	mm
Outer sheath of Thermoplastic material - orange (RAL 2003) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 8,20	mm

Printed each meter by blue ink-jet :

**CAVEL LAN 7A 1500 454 ZHA MADE IN ITALY CAT 7A S/FTP 4x2xAWG22/1 Euroclass Dca s1a,d1,a1 ISO-IEC 11801 EN50173-1 CEI-UNEL 36762 C-4 (U0 = 400V) gggaan m**

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

**Physical data**

Weight of copper conductors	30,20	kg/km
Total weight of cable	66,30	kg/km
Minimum bending radius x1/n	40/80	mm
Max.Tensile Strength	150	N
Installation temperature	0 / +50	°C
Operating temperature	-20 / +60	°C

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**Date**

04/09/2020

**Responsible**

A. Bergaglio

**Description**

Local Area Network Cable

Cat. 7A S/FTP 4x2xAWG22/1 orange LSZH  
1500MHz - 40% Braid Coverage**Data Sheet****LAN7A1500454ZHA**

MM97A45ZHB

**Electrical data**

Characteristic impedance	100 MHz	100 ± 5	Ohm
Capacitance of Twisted Pair (@800Hz)		43	pF/m
Velocity Ratio		77 %	
DC Conductor Resistance		57,50	Ohm/km
Loop resistance		115	Ohm/km
Insulation resistance		> 5000	MOhm/km
Sheath Insulation Voltage (DC, 1 min)		1	kV
Coupling Attenuation		> 45	dB

## Screening Attenuation (SA)

30 - 100 MHz	> 80 dB
100 - 1000 MHz	> 85 dB

## Transfer Impedance (Zt)

1 MHz	< 5 mOhm/m
10 MHz	< 3 mOhm/m
30 MHz	< 3 mOhm/m

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**Description**

PE/PP Side Pipe

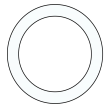
Coaxial Cables

**CAVEL**<sup>®</sup>

since 1968

**Data Sheet****PIPE**

MM97A45ZHB



∅

5,5 / 7,2 mm

PE+PP

Side Pipe in Polyethylene+Polypropylene blend

(PE+PP)

Inner ∅ 5,50 ± 0,20 mm

Outer ∅ 7,20 ± 0,20 mm

**Physical data**

Weight

15,00 kg/km

Maximum Blowing Pressure

20 bar

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Date

01/12/2017

Responsible

Giuseppe Guastella