

Description

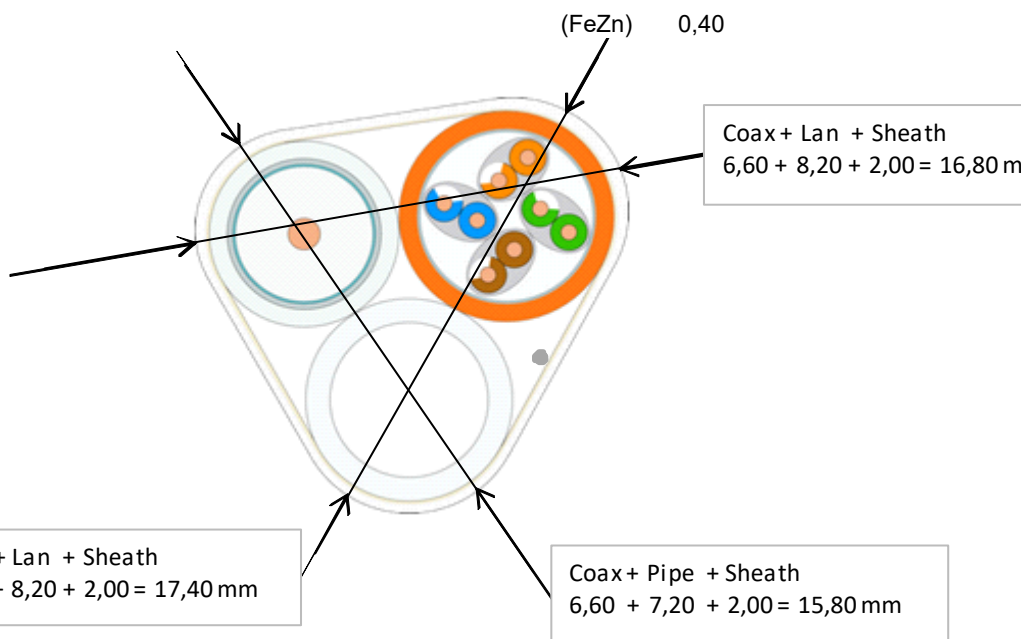
Hybrid multimedia cable

Coaxial, LAN and Loose Tube for Multimedia Applications



Data Sheet

MCLP97A45ZHB



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.

Standards

EN50117-9-2

EN50117-10-2

ISO/IEC 11801 Cl II (up to 1,5 GHz)

EN50288-12-1 (fino a 1,5 GHz)

EN50173

EIA-TIA 568

CEI-UNEL 36762

Reaction to Fire

EN50575

Application

CATV

4K-UHD

DOCSIS 3.1 (Data Over Coax System), Satellite Internet (VSAT)

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T; 25GBase-T; 40GBase-T

IEEE 802.5: ISDN; TPDDI; ATM; CATV; Broadband Video; PoE/PoE+

Over 1000 MHz, up to 50 m (Channel)

Indoor + Outdoor Installation

Attached Data Sheet

RP913ZH

LAN7A1500454ZHA

PIPE

Tracer Identifier

Outer sheath of Thermoplastic material - white - halogen-free, low smoke, flame retardant and UV-resistant

Year + Flag

(LSZH)

Ø 17,40 x 16,80

mm

ITALIANA CONDUTTORI s.r.l.

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

Date

17/07/2023

Responsible

A. Bergaglio

Description

Hybrid multimedia cable

Coaxial, LAN and Loose Tube for Multimedia Applications

Coaxial Cables

CAVEL[®]

since 1968

Data Sheet

MCLP97A45ZHB

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

Zinc-plated steel rip cord

(FeZn)

0,40

mm

Printed each meter by blue ink-jet :

CAVEL MCLP97A45ZHB MADE IN ITALY Euroclass Eca MULTIMEDIA COAX RP913ZH + LAN7A1500454ZHA + LOOSE TUBE gggaa(n) m

(gggaan=batch number m=meter marking)

Side Pipe in Polyethylene+Polypropylene blend

(PE+PP)

Inner Ø 5,50 ± 0,20 mm

Outer Ø 7,20 ± 0,20 mm

Physical data

Copper Content

49,25 kg/km

Total weight of cable

231,10 kg/km

Minimum bending radius (installation/operation)

180 / 90 mm

Minimum installation temperature

-5 °C

Operating temperature

-20 / +80 °C

Maximum Blowing Pressure

20 bar

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Responsible

A. Bergaglio

Description

Double-shielded Drop Coaxial Cable, for digital reception - 75 Ohm
Indoor and Outdoor installation cable (Screening attenuation - Class A++)

**Data Sheet**

RP913ZH
MCLP97A45ZHB



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

EN50117-9-2

EN50117-10-2

CEI-UNEL 36762

Reaction to Fire

EN50575

Application

DOCSIS 3.1 (Data Over Coax System)

CATV

4K-UHD

Indoor + Outdoor Installation

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 SA Class A++ EN50117-9-2 CEI-UNEL 36762 C-4 (U0 = 400V) ULTRA HD / 4K gggaa(n) m

(gggaan=batch number m=meter marking)

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Date

11/07/2023

Responsible

A. Bergaglio

Description

Double-shielded Drop Coaxial Cable, for digital reception - 75 Ohm
 Indoor and Outdoor installation cable (Screening attenuation - Class A++)

**Data Sheet**

RP913ZH
 MCLP97A45ZHB

Physical data

Weight of copper conductors	19,07	kg/km
Total weight of cable	45,82	kg/km
Minimum bending radius (single/repeated bending)	35/70	mm
Maximum cable pulling strength	150	N
Minimum installation temperature	-5	°C
Operating temperature	-20 / +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
Maximum current (Ieff)		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++		
30 - 1000 MHz	>110 dB		
1000 - 2000 MHz	>105 dB		
2000 - 3000 MHz	>90 dB		
Transfer Impedance (Zt)	5 - 30 MHz	< 2,5 mOhm/m	

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Date

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Responsible

A. Bergaglio

Description

Local Area Network Cable

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

Coaxial Cables

CAVEL

since 1968

Data Sheet

LAN7A1500454ZHA

MCLP97A45ZHB



Ø (mm)	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 Cl II (up to 1,5 GHz)	EN50288-12-1 (fino a 1,5 GHz)	EN50173	EIA-TIA 568
CEI-UNEL 36762			

Reaction to Fire

EN50575

Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)

Up to Class FA (1000 MHz), up to 100 m (Channel)

Over 1000 MHz, up to 50 m (Channel)

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T; 25GBase-T; 40GBase-T

IEEE 802.5: ISDN; TPDDI; ATM; CATV; Broadband Video; PoE/PoE+

Indoor + Outdoor Installation

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 Euroclass Dca s1a,d1,a1 ISO-IEC 11801 EN50173 CEI-UNEL 36762 C-4 (U0 = 400V) gggaa(n) m

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

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14/07/2023

Responsible

A. Bergaglio

Description

Local Area Network Cable

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

MCLP97A45ZHB

Physical data

Weight of copper conductors	30,20	kg/km
Total weight of cable	70,30	kg/km
Minimum bending radius x1/n	40/80	mm
Max.Tensile Strength	150	N
Installation temperature	0 / +50	°C
Operating temperature	-20 / +80	°C

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 x 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

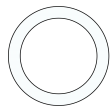
Data Sheet

CAVEL[®]

since 1968

PIPE

MCLP97A45ZHB



∅

5,5 / 7,2 mm

PE+PP

Application

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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