

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



Ø	0,64	1,52		8,20
	(Cu)	(PEG)	(Al/Pet)	(CuSn)
				(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	EN50173
IEC 61156	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

Power over Ethernet (PoE)/PoE+

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	%
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)

ITALIANA CONDUTTORI s.r.l.Viale Zanotti 90 I - 27027 Gropello Cairoli
Tel +39-382.815150 Fax +39-0382.814212**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

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

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

Transmission-Characteristic (at 20°C)

Frequency [MHz]	Attenuation [dB/100m]	RL [dB]	NEXT [dB]	ACR-N [dB/100m]
1	2,10		105,40	103,30
4	3,70	23,00	96,40	92,70
10	5,80	25,00	90,40	84,60
16	7,30	25,00	87,30	80,00
20	8,20	25,00	85,90	77,70
31,25	10,30	25,00	83,00	72,70
62,5	14,60	23,60	78,50	63,90
100	18,50	22,20	75,40	56,90
155,5	23,20	20,90	72,50	49,30
250	29,70	19,40	69,40	39,70
450	40,40	17,60	65,60	25,20
600	47,10	16,80	63,70	16,60
750	53,10	16,10	62,30	9,20
900	58,50	15,50	61,10	2,60
1000	61,90	15,20	60,40	-1,50
1500	77,20	14,00	57,80	-19,40

ITALIANA CONDUTTORI s.r.l.Viale Zanotti 90 I - 27027 Gropello Cairoli
Tel +39-382.815150 Fax +39-0382.814212**Date**

04/09/2020

Responsible

A. Bergaglio