

Description

Local Area Network Cable

Cat. 7 S/FTP 4x2xAWG23/1 orange LSZH
600MHz - 40% Braid Coverage

Coaxial Cables

CAVEL®

since 1968

Data Sheet**LAN7454ZHA**

Ø	0,57	1,35		8,00
	(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

EN 50173-1

EN 50288-4-1

ISO/IEC 11801

IEC 61156-5

Reaction to Fire

IEC 60332-1

IEC 60332-3-24

EN50575

Application

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

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

IEEE 802.5 16 MB: ISDN; TPDDI; ATM

Power over Ethernet (PoE)/PoE+

Construction data

4 pairs with conductor of bare copper wires	(Cu)	Ø 0,57	mm
Insulation of physical foam Polyethylene	(PEG)	Ø 1,35	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		41	%
Outer sheath of Thermoplastic material - orange (RAL 2003) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 8,00	mm

Printed each meter by blue ink-jet :

CAVEL LAN 7454 ZHA MADE IN ITALY CAT 7 S/FTP 4x2xAWG23/1 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

22/02/2018

Responsible

Alberto Scardovi

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600MHz - 40% Braid Coverage**Data Sheet****LAN7454ZHA****Physical data**

Weight of copper conductors	24,40	kg/km
Total weight of cable	66,40	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		73	Ohm/km
Loop resistance		146	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 - 600 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]	ACR-F [dB]
1	2,10	25,00	90,00	87,90	10,00
4	3,60	25,00	90,00	86,40	
10	5,40	25,00	90,00	84,60	
16	6,80	25,00	90,00	83,20	
20	7,70	25,00	85,00	77,30	
31,25	9,60	25,00	85,00	75,40	
62,5	13,70	25,00	80,00	66,30	
100	17,40	25,00	80,00	62,60	
125	19,50	25,00	80,00	60,50	
155,5	21,90	25,00	80,00	58,10	
175	23,30	25,00	75,00	51,70	
200	25,00	25,00	75,00	50,00	
250	28,10	25,00	75,00	46,90	
300	30,90	25,00	70,00	39,10	
450	38,30	25,00	70,00	31,70	
600	44,80	20,00	65,00	20,20	

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