

**Description**

Local Area Network Cable

Cat. 7A S/FTP 4x2xAWG23/1 LSZH  
1000MHz - 30% Braid Coverage**Data Sheet**

LAN7A10004573CZHA



Ø	0,57	1,35			9,0
	(Cu)	(PEG)	(Al/Pet)	(CuSn)	(LSZH-FR)

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

Cca 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 50288-9-1	EN 50173	EIA-TIA 568
CEI-UNEL 36762			

**Reaction to Fire**

EN50575

**Application**

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)  
 IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T  
 IEEE 802.5: ISDN; TPDDI; ATM; CATV; Broadband Video; PoE/PoE+  
 Indoor + Outdoor Installation

**Construction data**

Inner conductor of plain copper	(Cu)	Ø 0,57	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		30	%
Outer sheath of Thermoplastic material - orange (RAL 2003) - halogen-free, low smoke, flame retardant	(LSZH-FR)	Ø 9,00	mm

Printed each meter by blue ink-jet :

**CAVEL LAN 7A 1000 4573 C ZHA MADE IN ITALY CAT 7A S/FTP 4x2xAWG23/1 Euroclass Cca s1a,d1,a1  
 ISO-IEC 11801 EN50173-1 CEI-UNEL 36762 C-4 (U0 = 400V) gggaa(n) m**

(gggaan=batch number m=meter marking)

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

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

**Date**

08/03/2023

**Responsible**

A. Bergaglio

## Description

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## Data Sheet

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## Physical data

Weight of copper conductors	22,90	kg/km
Total weight of cable	87,80	kg/km
Minimum bending radius x1/n	40/80	mm
Max.Tensile Strength	150	N
Installation temperature	0 / +50	°C
Operating temperature	-25 / +70	°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 x km
Sheath Insulation Voltage (DC, 1 min)		1	kV
Coupling Attenuation		> 45	dB

## Screening Attenuation (SA)

30 - 100 MHz	> 70 dB
100 - 1000 MHz	> 60 dB

## Transfer Impedance (Zt)

1 MHz	< 11 mOhm/m
10 MHz	< 7 mOhm/m
30 MHz	< 6 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	95,00
4	3,60	25,00	90,00	86,40	95,00
10	5,40	25,00	90,00	84,60	90,00
20	7,70	25,00	85,00	77,30	90,00
31,25	9,60	25,00	85,00	75,40	85,00
62,5	13,70	25,00	80,00	66,30	85,00
100	17,40	25,00	80,00	62,60	80,00
155,5	21,90	25,00	80,00	58,10	80,00
250	28,10	25,00	75,00	46,90	75,00
500	40,30	25,00	70,00	29,70	65,00
600	44,80	20,00	65,00	20,20	60,00
1000	58,00	20,00	65,00	7,00	50,00

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