

Description

Local Area Network Cable

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

Coaxial Cables

CAVEL®

since 1968

Data Sheet

LAN7A10004573CZHA



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

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

Cca s1a,d0,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

IEC 61156

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 16 MB: ISDN; TPDDI; ATM

Power over Ethernet (PoE)/PoE+

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,d0,a1**ISO-IEC 11801 EN50173-1 CEI-UNEL 36762 C-4 (U0 = 400V) gggaan 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**

04/09/2020

Responsible

A. Bergaglio

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Physical data

Weight of copper conductors	22,90	kg/km
Total weight of cable	89,80	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	> 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]
1	2,10	25,00	90,00	87,90
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
155,5	21,90	25,00	80,00	58,10
250	28,10	25,00	75,00	46,90
450	38,30	25,00	70,00	31,70
600	44,80	20,00	65,00	20,20
750	51,00	20,00	65,00	14,00
900	54,50	20,00	65,00	10,50
1000	58,00	20,00	65,00	7,00

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