

## Description

Local Area Network Cable

Cat. 6A U/UTP 4x2xAWG23/1 LSZH

Coaxial Cables

CAVEL®

since 1968

Data Sheet

LAN6A40ZH



Ø	0,57	1,00	6,60
	(Cu)	(PE)	(LSZH)

## 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

EIA-TIA 568C.2	ISO/IEC 11801	IEC 61156-5	EN 50173
EN 50288-11-1 Draft			

## Reaction to Fire

IEC 60332-1	EN50575
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## Application

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

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

IEEE 802.5 16 MB: ISDN; FDDI; ATM

## Construction data

4 pairs with conductor of bare copper wires	(Cu)	Ø 0,57	mm
Insulation of solid Polyethylene	(PE)	Ø 1,00	mm

## Composition

Twisted pairs, coloured by Standard TIA-568A

Lay Length of Pairs		80	mm
Cross separator in Polyethylene	(PE)		
Outer sheath of Thermoplastic material - grey (RAL 7001) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 6,60	mm

Printed each meter by blue ink-jet :

**CAVEL LAN 6A 40 ZH MADE IN ITALY CAT 6A U/UTP 4x2xAWG23 - Euroclass Eca ISO-IEC 11801 EN50173**

**CEI-UNEL 36762 C-4 (U0 =400V) gggaan m**

(gggaan=batch number m=meter marking)

## Physical data

Weight of copper conductors	18,56	kg/km
Total weight of cable	46,40	kg/km
Minimum bending radius x1/n	35/70	mm
Maximum tensile strength during the installation	100	N
Installation temperature	0 / +50	°C
Operating temperature	-20 / +60	°C

## Electrical data

## ITALIANA CONDUTTORI s.r.l.

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

Date

30/05/2017

Responsible

Alberto Scardovi

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**Data Sheet****LAN6A40ZH**

Characteristic impedance	100 MHz	100 ± 5	Ohm
Capacitance of Twisted Pair (@800Hz)		48	pF/m
Velocity Ratio		67 %	
DC Conductor Resistance		80	Ohm/km
Loop resistance		160	Ohm/km
Insulation resistance		> 5000	MOhm/km
Sheath Insulation Voltage (DC, 1 min)		1	kV
Coupling Attenuation		> 45	dB

**Transmission-Characteristic (at 20°C)**

Frequency [MHz]	Attenuation [dB/100m]	RL [dB]	NEXT [dB]	ACR [dB/100m]
1	1,80	25,00	100,00	98,20
10	5,40	25,00	80,00	74,60
20	7,70	25,00	70,00	62,30
31,2	9,60	25,00	65,00	55,40
62,5	13,70	25,00	60,00	46,30
100	17,40	25,00	60,00	42,60
155,5	21,90	25,00	55,00	33,10
200	25,00	20,00	55,00	30,00
250	28,10	20,00	50,00	21,90
300	30,80	20,00	45,00	14,20
500	40,00	15,00	42,00	2,00

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