

Description

Local Area Network Cable

Cat. 6 U/UTP 4x2xAWG23/1 LSZH

Coaxial Cables

CAVEL®

since 1968

Data Sheet

LAN640ZH



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 568-B-2	ISO/IEC 11801 2° ed.	IEC 61156-5	EN 50173
EN 50288-6-1			

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

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
Dielectric of solid polyethylene	(PE)	Ø 1,00	mm

Composition

Twisted pairs, coloured by Standard TIA-568A

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 640 ZH MADE IN ITALY CAT 6 U/UTP 4x2xAWG23 - Euroclass Eca ISO-IEC 11801 EN50173
CEI-UNEL 36762 C-4 (U0 = 400V) gggaan m**

(ggg=day)(aa=year)(n=batch) (m=meter marking)

Physical data

Weight of copper conductors	18,56	kg/km
Total weight of cable	45,20	kg/km
Minimum bending radius x1/n	35/70	mm
Maximum cable pulling strength	100	N
Maximum tensile strength during the installation	100	N
Installation temperature	0 / +50	°C
Operating temperature	-20 / +60	°C

ITALIANA CONDUTTORI s.r.l.

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Date

29/05/2017

Responsible

Alberto Scardovi

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**Data Sheet****LAN640ZH****Electrical data**

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]	SRL [dB]	NEXT [dB]	ACR [dB]	FEXT [dB]
1	1,80	25,00	100,00	98,20	90,00
10	5,40	25,00	80,00	74,60	70,00
20	7,70	25,00	70,00	62,30	60,00
31,2	9,60	25,00	65,00	55,40	53,00
62,5	13,70	25,00	60,00	46,30	50,00
100	17,40	25,00	60,00	42,60	48,00
155,5	21,90	25,00	55,00	33,10	46,00
200	25,00	20,00	55,00	30,00	44,00
250	28,10	20,00	50,00	21,90	40,00
300	30,80	20,00	45,00	14,20	

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