

## Description

Local Area Network Cable

Cat. 6 U/UTP 4x2xAWG23 LSZH

Coaxial Cables

**CAVEL**<sup>®</sup>

since 1968

## Data Sheet

**LAN640ZH****Construction data**

4x2xAWG23 pairs of copper wires	(Cu)	0,57	mm
Dielectric of solid polyethylene	(PE)	1,00	mm

**Composition**

## Sheath Colour

white/blu - blu  
 white/green - green  
 white/orange - orange  
 white/brown - brown

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

Printed each meter by blue ink-jet :

**CAVEL LAN 640 ZH MADE IN ITALY ss/aa U/UTP 4x2xAWG23 - CATEGORY 6 ISO-IEC 11801 EN50173**  
**CEI-UNEL 36762 C-4 (U0 =400V) - m**

(ss=week, aa=year) (m=meter marking)

**Electrical data**

Characteristic impedance	1 - 100 MHz	100 ± 15	Ohm
	100 - 250 MHz	100 ± 22	Ohm
Capacitance of Twisted Pair (@800Hz)		48	pF/m
Velocity Ratio		67 %	
Conductor resistance @ 20°C		80	Ohm/Km
Loop resistance		160	Ohm/km
Insulation resistance		> 5.000	>MOhm x km
Test voltage (DC, 1 min)		1	KV

Frequency [MHz]	Attenuation [dB/100m]	SRL [dB]	NEXT [dB/100m]	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

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

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 Tel +39-382.815150 Fax +39-0382.814212

## Date

04/10/2013

## Responsible

Alberto Scardovi

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**Data Sheet****LAN640ZH****Mechanical data**

Weight of copper conductors	18,24	kg/km		
Total weight of cable	44,37	kg/km		
Minimum bending radius (installation/operation)	70/35	mm		
Maximum cable pulling strength	100	N		
Maximum pulling strength during the installation	100	N		
Working temperature	-20 / +60	°C		
Lay out temperature	> 0 < +50	°C		
Fire Load	710	MJ/km	197	kWh/km

**Standards**

IEC60332-1  
EIA-TIA 568-B2  
ISO/IEC 11801 2° ed.; IEC 61156-5  
EN50173; EN50288-5-1

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