

Description

Local Area Network Cable

Cat. 6 U/UTP 4x2xAWG23/1 LSZH



Data Sheet

LAN640ZH



Ø	0,55	1,05	6,80
	(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

ISO/IEC 11801 Class E	EN 50288-6-1	EN 50173	EIA-TIA 568
CEI-UNEL 36762			

Reaction to Fire

EN50575

Application

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

IPTV; HbbTV 2.0.n

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

IEEE 802.5 16 MB: ISDN; TPDDI; ATM; PoE

Indoor + Outdoor Installation

Construction data

4 pairs with conductor of bare copper wires	(Cu)	Ø 0,55	mm
Dielectric of solid polyethylene	(PE)	Ø 1,05	mm

Composition

Twisted pairs, coloured by Standard TIA-568A

Plastic Cross Separator

Outer sheath of Thermoplastic material - grey (RAL 7001) - halogen-free, low smoke, flame retardant and UV-resistant	(LSZH)	Ø 6,80	mm
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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) 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

17/07/2023

Responsible

A. Bergaglio

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Physical data

Weight of copper conductors	17,30	kg/km
Total weight of cable	48,10	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 / +80	°C

Electrical data

Characteristic impedance	100 MHz	100 ± 5	Ohm
Capacitance of Twisted Pair (@800Hz)		48	pF/m
Velocity Ratio		67 %	
DC Conductor Resistance		82	Ohm/km
Loop resistance		164	Ohm/km
Insulation resistance		> 5000	MOhm x 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-N [dB/100m]	ACR-F [dB]
1	1,80	25,00	80,00	78,20	75,00
10	5,40	25,00	75,00	69,60	60,00
20	7,70	25,00	70,00	62,30	50,00
31,2	9,60	25,00	65,00	55,40	47,00
62,5	13,70	25,00	60,00	46,30	40,00
100	17,40	25,00	60,00	42,60	37,00
155,5	21,90	25,00	55,00	33,10	30,00
250	28,10	20,00	50,00	21,90	25,00

Connectors

KJ6A40AB	Socket RJ45 FTP, Cat.6A toolless Alu, Socket RJ45
PLUG6U1.1M	Plug RJ45, Plug RJ45 UTP Cat. 6, Plug RJ45 -

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