

**Description**

Local Area Network Cable

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

**Data Sheet****LAN640PE**

Ø	0,55	1,05		6,80
	(Cu)	(PE)	(Pet)	(PE)

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

Fca

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: ISDN; TPDDI; ATM; CATV; Broadband Video; PoE/PoE+

Exterior and Underground Installation

**Construction data**

4 pairs with conductor of bare copper wires	(Cu)	Ø 0,55	mm
Insulation of solid Polyethylene	(PE)	Ø 1,05	mm
Polyester film spirally wrapped	(Pet)		

**Composition**

Twisted pairs, coloured by Standard TIA-568A

Plastic Cross Separator

Outer sheath of Polyethylene - black (RAL 9011) (PE) Ø 6,80 mm

Printed each meter by yellow ink-jet :

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

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

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

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

Date

14/03/2022

Responsible

A. Bergaglio

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## Data Sheet

LAN640PE

## Physical data

Weight of copper conductors	17,30	kg/km
Total weight of cable	40,60	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	-40 / +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]
1	1,80	25,00	80,00	78,20
10	5,40	25,00	75,00	69,60
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

## Connectors

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

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