

Description

Local Area Network Cable

Cat. 6 U/UTP 4x2xAWG23/1 PE

Coaxial Cables

CAVEL®

since 1968

Data Sheet

LAN640PE



Ø	0,57	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	IEC 61156
EIA-TIA 568	CEI-UNEL 36762		

Reaction to Fire

EN50575

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
Insulation of solid Polyethylene	(PE)	Ø 1,05	mm
Polyester film spirally wrapped	(Pet)		
Cross separator in Polyethylene			
Outer sheath of Polyethylene - black	(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)

Physical data

Weight of copper conductors	18,56	kg/km
Total weight of cable	39,10	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 / +60	°C

Electrical data

Characteristic impedance	100 MHz	100 ± 5	Ohm
Capacitance of Twisted Pair (@800Hz)		48	pF/m

ITALIANA CONDUTTORI s.r.l.

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Tel +39-382.815150 Fax +39-0382.814212

Date

10/11/2020

Responsible

A. Bergaglio

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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-N [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

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