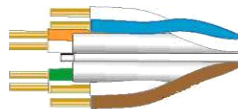


Description

Local Area Network Cable

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

**Data Sheet****LAN6A40ZH**

Ø

0,57

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

EIA-TIA 568C.2

ISO/IEC 11801

IEC 61156-5

EN 50173

EN 50288-11-1

Reaction to Fire

IEC 60332-1

EN50575

Application

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

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

IEEE 802.5 16 MB: ISDN; FDDI; ATM

Construction data

4 pairs with conductor of bare copper wires

(Cu)

Ø 0,57

mm

Insulation of solid Polyethylene

(PE)

Ø 1,05

mm

Composition

Twisted pairs, coloured by Standard TIA-568A

Cross separator in Polyethylene

(PE)

Ø 5,00

mm

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

(LSZH)

Ø 6,80

mm

Printed each meter by blue ink-jet :

CAVEL LAN 6A 40 ZH MADE IN ITALY CAT 6A U/UTP 4x2xAWG23 - Euroclass Eca ISO-IEC 11801 EN50173**CEI-UNEL 36762 C-4 (U0 =400V) gggaan m**

(gggaan=batch number m=meter marking)

Physical data

Weight of copper conductors

18,56

kg/km

Total weight of cable

46,40

kg/km

Minimum bending radius x1/n

35/70

mm

Maximum tensile strength during the installation

100

N

Installation temperature

0 / +50

°C

Operating temperature

-20 / +60

°C

Electrical data**ITALIANA CONDUTTORI s.r.l.**

Viale Zanotti 90 I - 27027 Gropello Cairoli

Tel +39-382.815150 Fax +39-0382.814212

Date

29/05/2020

Responsible

A. Bergaglio

Description

Local Area Network Cable

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

**Data Sheet****LAN6A40ZH**

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]	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
300	30,80	20,00	45,00	14,20
500	40,00	15,00	42,00	2,00

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