

Description

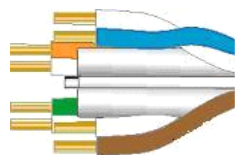
Local Area Network Cable

Cat. 6 U/UTP 4x2xAWG23/1 PVC+PE

Coaxial Cables

CAVEL®

since 1968

Data Sheet**LAN6402G**

Ø

0,57

1,05

6,80

8,00

(Cu)

(PE)

(PVC)

(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

Composition

Twisted pairs, coloured by Standard TIA-568A

Cross separator in Polyethylene

Inner sheath of Polyvinylchloride white lead-free

(PVC)

6,80

mm

Outer sheath of Polyethylene - black

(PE)

Ø 8,00

mm

Printed each meter by blue ink-jet :

CAVEL LAN 640 2G MADE IN ITALY CAT 6 U/UTP 4x2xAWG23 Euroclass Fca ISO-IEC 11801 EN50173**CEI-UNEL 36762 C-4 (U0 = 400V) gggaan m**

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

ITALIANA CONDUTTORI s.r.l.

Viale Zanotti 90 I - 27027 Gropello Cairoli

Tel +39-382.815150 Fax +39-0382.814212

Date

10/11/2020

Responsible**A. Bergaglio**

Description

Local Area Network Cable

Cat. 6 U/UTP 4x2xAWG23/1 PVC+PE

**Data Sheet****LAN6402G****Physical data**

Weight of copper conductors	18,56	kg/km
Total weight of cable	57,20	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
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)		3	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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