

Description

Local Area Network Cable

Cat. 5e U/UTP 4x2xAWG24/1 PVC+PE

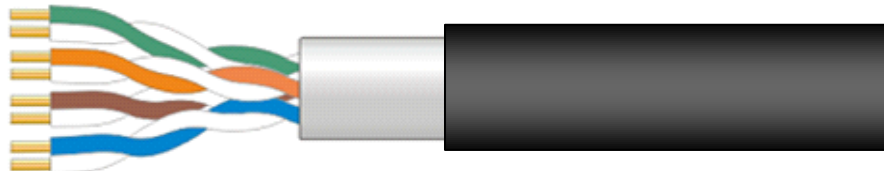
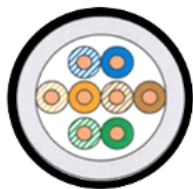
Coaxial Cables

CAVEL

since 1968

Data Sheet

LAN5402G



Ø	0,51	0,90	5,10	6,30
	(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 D	EN 50288-3-1	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; PoE

Power over Ethernet (PoE)/PoE+

Exterior and Underground Installation

Construction data

4 pairs with conductor of bare copper wires	(Cu)	Ø 0,51	mm
Insulation of solid Polyethylene	(PE)	Ø 0,90	mm

Composition

Twisted pairs, coloured by Standard TIA-568A

Inner sheath of Polyvinylchloride - white	(PVC)	Ø 5,10	mm
Outer sheath of Polyethylene - black (RAL 9011)	(PE)	Ø 6,30	mm

Printed each meter by yellow ink-jet :

**CAVEL LAN 540 2G MADE IN ITALY CAT 5E U/UTP 4x2xAWG24 - Euroclass Fca ISO-IEC 11801 EN50173
CEI-UNEL 36762 C-4 (U0 = 400V) gggaa(n) 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

09/11/2020

Responsible

A. Bergaglio

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Data Sheet

LAN5402G**Physical data**

Weight of copper conductors	14,32	kg/km
Total weight of cable	40,50	kg/km
Minimum bending radius x1/n	20/40	mm
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		95	Ohm/km
Loop resistance		190	Ohm/km
Insulation resistance		> 5000	MOhm x 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	1,90	20,00	71,00	69,10
10	6,00	25,00	56,00	50,00
20	8,50	25,00	51,00	42,50
31,2	10,70	24,00	49,00	38,30
62,5	15,70	22,00	44,00	28,30
100	19,80	20,00	41,00	21,20

Connectors

KJ540AB	Socket RJ45 UTP, Cat.5e toolless black, Socket RJ45
KJ540AN	Socket RJ45 UTP, Cat.5e toolless black, Socket RJ45
PLUG5U	Plug RJ45, Plug RJ45 UTP Cat. 5e, Plug RJ45 -

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