

**Description**

Local Area Network Cable

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



**Data Sheet**

**LAN5402G**



Ø	0,51	0,90	5,10	6,30
	(Cu)	(PE)	(PVC)	(PE)

**Standards**

EIA-TIA 568A	ISO/IEC 11801 2° ed.	IEC 61156-5	EN 50173
EN 50288-3-1			

**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 0,51	mm
Insulation of solid Polyethylene	(PE)	Ø 0,90	mm

**Composition**

Twisted pairs, coloured by Standard TIA-568A

Inner sheath of Polyvinylchloride white	(PVC)	5,10	mm
Outer sheath of Polyethylene - black	(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)

**Physical data**

Weight of copper conductors	14,32	kg/km
Total weight of cable	39,81	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	-20 / +60	°C

**Electrical data**

Characteristic impedance	100 MHz	100 ± 5	Ohm
Capacitance of Twisted Pair (@800Hz)		48	pF/m
Velocity Ratio		67 %	

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

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

**Date**

**12/05/2017**

**Responsible**

**Alberto Scardovi**

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DC Conductor Resistance	95	Ohm/km
Loop resistance	190	Ohm/km
Insulation resistance	> 2000	MOhm/km
Sheath Insulation Voltage (DC, 1 min)	3	kV
Coupling Attenuation	> 45	dB

**Transmission-Characteristic (at 20°C)**

Frequency [MHz]	Attenuation [dB/100m]	SRL [dB]	NEXT [dB]	ACR [dB]
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
155,5	24,20		38,00	13,80
200	27,50		36,00	8,50
250	29,20		35,00	5,80
300	32,00		34,00	2,00

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