

**Description**

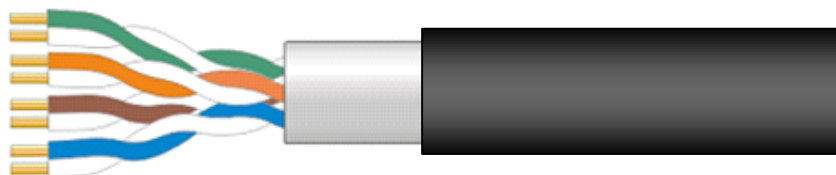
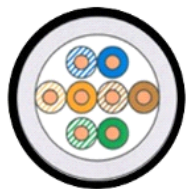
Local Area Network Cable

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

**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 0,51 | 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)

**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**

**Description**

Local Area Network Cable

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

**Data Sheet****LAN5402G****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 %    |         |
| 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<br>[MHz] | Attenuation<br>[dB/100m] | RL<br>[dB] | NEXT<br>[dB] | ACR-N<br>[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              |

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