

**Description**

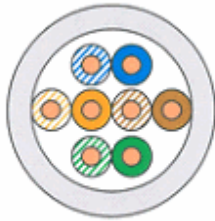
Local Area Network Cable

Cat. 5e U/UTP 4x2xAWG24 PVC



**Data Sheet**

**LAN\_540\_2G**



|      |      |      |      |
|------|------|------|------|
| 0,51 | 0,90 | 5,10 | 6,30 |
| (Cu) | (PE) | (PE) |      |

**Construction data**

|                                      |      |      |    |
|--------------------------------------|------|------|----|
| 4x2xAWG24 pairs of bare copper wires | (Cu) | 0,51 | mm |
| Insulation of solid Polyethylene     | (PE) | 0,90 | mm |

| Composition | Sheath Colour         | Lay length of pairs [mm] |
|-------------|-----------------------|--------------------------|
|             | white/blu - blu       | 13,00                    |
|             | white/green - green   | 16,80                    |
|             | white/orange - orange | 21,00                    |
|             | white/brown - brown   | 24,70                    |

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

Printed each meter by yellow ink-jet :

**CAVEL LAN 540 2G MADE IN ITALY ss/aa U/UTP 4x2xAWG24 - CATEGORY 5E ISO-IEC 11801 EN50173  
CEI-UNEL 36762 C-4 (U0 =400V) - m**

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

**Electrical data**

|                                      |              |          |           |
|--------------------------------------|--------------|----------|-----------|
| Characteristic impedance             | 1 - 100 MHz  | 100 ± 15 | Ohm       |
| Capacitance of Twisted Pair (@800Hz) |              | 48       | pF/m      |
| Velocity Ratio                       |              | 67 %     |           |
| Conductor resistance @ 20°C          |              | 95       | Ohm/km    |
| Loop resistance                      |              | 190      | Ohm/km    |
| Insulation resistance                |              | > 2.000  | MOhm x km |
| Test voltage (DC, 1 min)             |              | 1        | kV        |
| Coupling Attenuation                 | 30 - 100 MHz | > 45 dB  |           |

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

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

**Date**

**03/10/2013**

**Responsible**

**Alberto Scardovi**

## Description

Local Area Network Cable

Cat. 5e U/UTP 4x2xAWG24 PVC

Coaxial Cables

**CAVEL**<sup>®</sup>

since 1968

## Data Sheet

**LAN\_540\_2G**

| Frequency<br>[MHz] | Attenuation<br>[dB/100m] | SRL<br>[dB] | NEXT<br>[dB/100m] | ACR<br>[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        |

**Mechanical data**

|  |           |       |     |        |
|--|-----------|-------|-----|--------|
| Weight of copper conductors                      | 14,60     | kg/km |     |        |
| Total weight of cable                            | 39,81     | kg/km |     |        |
| Minimum bending radius (installation/operation)  | 40/20     | mm    |     |        |
| Maximum pulling strength during the installation | 100       | N     |     |        |
| Working temperature                              | -20 / +60 | °C    |     |        |
| Lay out temperature                              | 0 / +50   | °C    |     |        |
| Fire Load  | 860       | MJ/km | 239 | kWh/km |

**Standards**

IEC 60332-1  
 EIA-TIA 568A  
 ISO/IEC 11801/2° ed.; IEC 61156-5  
 EN50173; EN50288-3-1

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