

Description

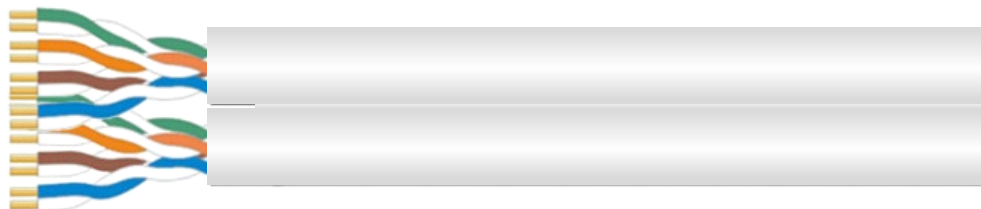
Local Area Network Cable

Cat.5e U/UTP 4x2xAWG23/1 PVC

Coaxial Cables

CAVEL[®]

since 1968

Data Sheet**2XLAN540****Construction data****Composition****Sheath Colour**

LAN540

Outer sheath of Polyvinylchloride - white (PVC) - lead-free

(PVC)

10,30 x 5,10 mm

Printed each meter by blue ink-jet :

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

Viale Zanotti 90 I - 27027 Gropello Cairoli

Tel +39-382.815150 Fax +39-0382.814212

Date**14/02/2014****Responsible****Alberto Scardovi**

Description

Local Area Network Cable
 Cat. 5e U/UTP 4x2xAWG24 PVC



Data Sheet

LAN540
 2XLAN540



| | | | |
|---|--------------|--------------|---------------|
| Ø | 0,51 (Cu) | 0,90 (PE) | 5,10 (PVC) |
|---|--------------|--------------|---------------|

Construction data

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

Composition

- white/blu - blu
- white/green - green
- white/orange - orange
- white/brown - brown

| | | |
|---|-------|---------|
| Outer sheath of Polyvinylchloride - white (PVC) | (PVC) | 5,10 mm |
|---|-------|---------|

Printed each meter by blue ink-jet :

CAVEL LAN 540 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 Factor | | 67 % | |
| DC Conductor Resistance | | 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 |

| Frequency [MHz] | Attenuation [dB/100m] | SRL [dB] | NEXT [dB/100m] | ACR [dB] | FEXT [dB] |
|-----------------|-----------------------|----------|----------------|----------|-----------|
| 1 | 1,90 | 20,00 | 71,00 | 69,10 | 80,00 |
| 10 | 6,00 | 25,00 | 56,00 | 50,00 | 62,00 |
| 20 | 8,50 | 25,00 | 51,00 | 42,50 | 58,00 |
| 31,2 | 10,70 | 24,00 | 49,00 | 38,30 | 56,00 |
| 62,5 | 15,70 | 22,00 | 44,00 | 28,30 | 50,00 |
| 100 | 19,80 | 20,00 | 41,00 | 21,20 | 48,00 |
| 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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04/10/2013

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**Data Sheet****LAN540**

2XLAN540

Mechanical data

| | | | | |
|--|-----------|-------|-----|--------|
| Weight of copper conductors | 14,60 | kg/km | | |
| Total weight of cable | 30,51 | 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 | 398 | MJ/km | 111 | kWh/km |

Standards

EIA-TIA 568A ISO/IEC 11801/2^{ed} IEC 61156-5 EN50173 EN50288-3-1

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