

Description

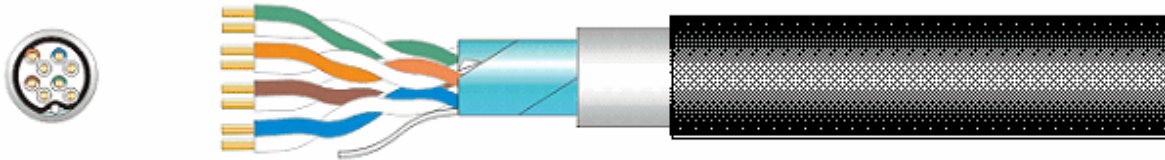
Local Area Network Cable

Cat. 5e F/UTP 4x2xAWG24 PVC



Data Sheet

LAN5412G



| | | | |
|------|------|------|------|
| 0,51 | 1,00 | 6,00 | 7,50 |
| (Cu) | (PE) | (PE) | |

Construction data

| | | | |
|--|------|------|----|
| 4x2xAWG24 foil screened pairs of bare copper wires | (Cu) | 0,51 | mm |
| Insulation of solid Polyethylene | (PE) | 1,00 | mm |

Composition

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

| | | | |
|---|----------|------|---------|
| Alluminio/Polyester tape spirally wound | (Al/Pet) | | |
| Drain wire of tinned copper | (CuSn) | 0,40 | mm |
| Inner sheath of Polyvinylchloride white (PVC) | (PVC) | 6,00 | mm |
| Outer sheath of Polyethylene - black | (PE) | | 7,50 mm |

Printed each meter by yellow ink-jet :

**CAVEL LAN 541 2G MADE IN ITALY ss/aa F/UTP 4x2xAWG24 - CATEGORY 5E ISO-IEC 11801 EN50173
CEI-UNEL 36762 C-4 (U0 =400V) - m**

(ss=week , aaaa=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 |

| | | | |
|----------------------------|---------|-------|--------------------|
| Screening Attenuation (SA) | | | Transfer impedance |
| 30 - 100 MHz | > 40 dB | up to | 1 MHz < 25 mOhm/m |
| | | up to | 10 MHz < 8 mOhm/m |
| | | up to | 30 MHz < 10 mOhm/m |

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Date

24/01/2013

Responsible

Alberto Scardovi

Description

Local Area Network Cable

Cat. 5e F/UTP 4x2xAWG24 PVC

Coaxial Cables

CAVEL[®]

since 1968

Data Sheet

LAN5412G

| Frequency [MHz] | Attenuation [dB/100m] | SRL [dB] | NEXT [dB/100m] | 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 |

Mechanical data

| | | |
|--|-----------|-------|
| Weight of copper conductors | 15,72 | kg/km |
| Total weight of cable | 50,25 | kg/km |
| Minimum bending radius (installation/operation) | 50/25 | mm |
| Maximum pulling strength during the installation | 100 | N |
| Working temperature | -20 / +60 | °C |
| Lay out temperature | 0 / +50 | °C |

Standards

IEC 60332-1
 EIA-TIA 568B.2
 ISO/IEC 11801; IEC 61156-5
 EN50173; EN50288-2-1

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