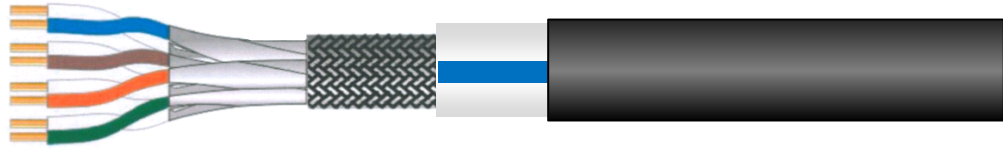


Local Area Network Cable

CAVEL[®]**LAN7452G**

since 1968

Cat. 7A S/FTP (PiMF mode) 4x2xAWG23/1

**Class CPR acc. to UE 305/2011 (DoP)**F_{ca}

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.

Construction data

| | | | |
|--|----------|--------|----|
| Inner conductor of plain copper | (Cu) | Ø 0,57 | mm |
| Insulation of physical foam Polyethylene | (PEG) | Ø 1,35 | mm |
| Al/Pet foil shielded pairs, PiMF mode | (Al/Pet) | | |

Composition

Twisted pairs, coloured by Standard TIA-568A

| | | | | |
|---|-------|--------|--------|----|
| Braid of tinned copper wires | 0,100 | (CuSn) | | |
| Braid Optical Coverage | | | 94 | % |
| Inner sheath of Polyvinylchloride white with two blue bands lead-free | | (PVC) | 8,00 | mm |
| Outer sheath of Polyethylene - black - UV resistant | | (PE) | Ø 9,20 | mm |
| Printed each meter by yellow ink-jet : | | | | |

**CAVEL LAN 745 2G MADE IN ITALY CAT 7A S/FTP 4x2xAWG23/1 - Euroclass Fca ISO-IEC 11801 EN50173-1
CEI-UNEL 36762 C-4 (U0 =400V) gggaan - m**

(gggaan=batch number m=meter marking)

Physical data

| | | | |
|----------------------------------|--|-----------|-------|
| Weight of copper conductors | | 24,40 | kg/km |
| Total weight of cable | | 78,50 | kg/km |
| Minimum bending radius x1/n | | 40/80 | mm |
| Max.Tensile Strength | | 150 | N |
| Minimum installation temperature | | - 5 | °C |
| Operating temperature | | -40 / +80 | °C |

Electrical data

| | | | |
|---------------------------------------|-------------|---------|---------|
| Characteristic impedance | 1 - 100 MHz | 100 ± 5 | Ohm |
| Capacitance of Twisted Pair (@800Hz) | | 43 | pF/m |
| Velocity Ratio | | 77 % | |
| DC Conductor Resistance | | 73 | Ohm/km |
| Loop resistance | | 146 | Ohm/km |
| Insulation resistance | | > 5000 | MOhm/km |
| Sheath Insulation Voltage (DC, 1 min) | | 1 | kV |

ITALIANA CONDUTTORI s.r.l.

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

Date

22/01/2018

Responsible

Alberto Scardovi

Local Area Network Cable

CAVEL®**LAN7452G**

since 1968

Cat. 7A S/FTP (PiMF mode) 4x2xAWG23/1

Coupling Attenuation > 45 dB

Screening Attenuation (SA)

| | |
|----------------|---------|
| 30 - 100 MHz | > 80 dB |
| 100 - 1000 MHz | > 85 dB |

Shield Transfer Impedance (Zt)

| | |
|--------|------------|
| 1 MHz | < 5 mOhm/m |
| 10 MHz | < 3 mOhm/m |
| 30 MHz | < 3 mOhm/m |

Transmission-Characteristic (at 20°C)

| Frequency [MHz] | Attenuation [dB/100m] | SRL [dB] | NEXT [dB] | ACR [dB] |
|--------------------|--------------------------|-------------|--------------|-------------|
| 1 | 2,10 | 25,00 | 90,00 | 87,90 |
| 4 | 3,60 | 25,00 | 90,00 | 86,40 |
| 10 | 5,40 | 25,00 | 90,00 | 84,60 |
| 16 | 6,80 | 25,00 | 90,00 | 83,20 |
| 20 | 7,70 | 25,00 | 85,00 | 77,30 |
| 31,25 | 9,60 | 25,00 | 85,00 | 75,40 |
| 62,5 | 13,70 | 25,00 | 80,00 | 66,30 |
| 100 | 17,40 | 25,00 | 80,00 | 62,60 |
| 125 | 19,50 | 25,00 | 80,00 | 60,50 |
| 155,5 | 21,90 | 25,00 | 80,00 | 58,10 |
| 175 | 23,30 | 25,00 | 75,00 | 51,70 |
| 200 | 25,00 | 25,00 | 75,00 | 50,00 |
| 250 | 28,10 | 25,00 | 75,00 | 46,90 |
| 300 | 30,90 | 25,00 | 70,00 | 39,10 |
| 450 | 38,30 | 25,00 | 70,00 | 31,70 |
| 600 | 44,80 | 20,00 | 65,00 | 20,20 |
| 750 | 51,00 | 20,00 | 65,00 | 14,00 |
| 900 | 54,50 | 20,00 | 65,00 | 10,50 |
| 1000 | 58,00 | 20,00 | 65,00 | 7,00 |
| 1200 | 62,00 | 20,00 | 60,00 | -2,00 |

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