

Description

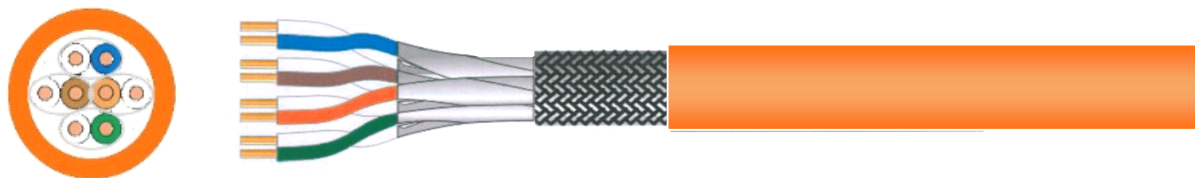
Local Area Network Cable

Cat. 7A S/FTP 4x2xAWG22/1 orange LSZH 1500MHz
 - omologation pending - 41% Braid Coverage



Data Sheet

LAN7A454ZHA



| | | | |
|---|--------------|---------------|----------------|
| ∅ | 0,64 (Cu) | 1,52 (PEE) | 8,20 (LSZH) |
|---|--------------|---------------|----------------|

Construction data

| | | |
|--|-------|---------|
| Inner conductor of plain copper | (Cu) | 0,64 mm |
| Dielectric of physical foam polyethylene | (PEE) | 1,52 mm |

Composition

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

| | | |
|--|----------|---------|
| Overall Al/Pet foil shielded pairs, PiMF mode | (Al/Pet) | |
| Braid of tinned copper wires | (CuSn) | |
| Braid Optical Coverage | | 41 % |
| Outer sheath of Thermoplastic material - orange (RAL 2003) - halogen-free, low smoke, flame retardant and UV-resistant | (LSZH) | 8,20 mm |

Printed each meter by blue ink-jet :

**CAVEL LAN 7A454 ZHA MADE IN ITALY ss/aa S/FTP 4x2xAWG22/1 - CATEGORY 7A ISO-IEC 11801 EN50173-1
 CEI-UNEL 36762 C-4 (U0 =400V) - m**

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

Electrical data

| | | | |
|--------------------------------------|----------------|------------|-----------|
| Characteristic impedance | 1 - 100 MHz | 100 ± 5 | Ohm |
| | 100 - 250 MHz | 100 ± 10 | Ohm |
| | 250 - 1000 MHz | 100 ± 15 | Ohm |
| Capacitance of Twisted Pair (@800Hz) | | 43 | pF/m |
| Velocity Factor | | 77 % | |
| DC Conductor Resistance | | 57,50 | Ohm/Km |
| Loop resistance | | 115 | Ohm/km |
| Insulation resistance | | > 2.000 | MOhm x km |
| Test voltage (DC, 1 min) | | 1.000 | V |
| Transfer impedance | | | |
| | 1 MHz | < 9 mOhm/m | |
| | 10 MHz | < 7 mOhm/m | |
| | 30 MHz | < 5 mOhm/m | |

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Date

19/05/2014

Responsible

Alberto Scardovi

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Cat. 7A S/FTP 4x2xAWG22/1 orange LSZH 1500MHz
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Coaxial Cables

CAVEL[®]

since 1968

Data Sheet

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| Frequency [MHz] | Attenuation [dB/100m] | SRL [dB] | NEXT [dB/100m] | ACR [dB] |
|--------------------|--------------------------|-------------|-------------------|-------------|
| 1 | 2,00 | | 80,00 | 78,00 |
| 4 | 3,50 | 25,00 | 80,00 | 75,50 |
| 10 | 5,30 | 25,00 | 80,00 | 74,70 |
| 16 | 6,60 | 25,00 | 80,00 | 73,40 |
| 20 | 7,50 | 25,00 | 80,00 | 71,50 |
| 31,25 | 9,50 | 25,00 | 80,00 | 70,50 |
| 62,5 | 13,50 | 25,00 | 80,00 | 66,50 |
| 100 | 17,00 | 25,00 | 80,00 | 63,00 |
| 125 | 19,00 | 25,00 | 80,00 | 61,00 |
| 155,5 | 21,00 | 25,00 | 80,00 | 59,00 |
| 175 | 22,50 | 25,00 | 75,00 | 52,50 |
| 200 | 24,50 | 25,00 | 75,00 | 50,50 |
| 250 | 27,00 | 25,00 | 75,00 | 48,00 |
| 300 | 30,00 | 25,00 | 70,00 | 40,00 |
| 450 | 37,00 | 25,00 | 70,00 | 33,00 |
| 600 | 42,50 | 20,00 | 65,00 | 22,50 |
| 750 | 48,00 | 20,00 | 65,00 | 17,00 |
| 900 | 54,00 | 15,00 | 65,00 | 11,00 |
| 1000 | 57,00 | 15,00 | 65,00 | 8,00 |

Physical data

| | | | | |
|---|-----------|-------|-----|--------|
| Weight of copper conductors | 29,93 | kg/km | | |
| Total weight of cable | 66,30 | kg/km | | |
| Minimum bending radius (installation/operation) | 80/40 | mm | | |
| Working temperature | -20 / +60 | °C | | |
| Lay out temperature | 0 / +50 | °C | | |
| Fire Load | 660 | MJ/km | 183 | kWh/km |

Standards

| | | | |
|------------|--------------|---------------|--------------|
| EN 50173-1 | EN 50288-9-1 | ISO/IEC 11801 | IEEE 802.3at |
|------------|--------------|---------------|--------------|

Fire-Resistance Rating

| | | |
|-------------|-------------|-----------|
| IEC 60754-2 | IEC 60332-1 | IEC 61034 |
|-------------|-------------|-----------|

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