

**Description**

Local Area Network Cable

Cat. 7A S/FTP 4x2xAWG23/1 orange LSZH  
1000MHz - 30% Braid Coverage

Coaxial Cables

**CAVEL®**

since 1968

**Data Sheet****LAN7A10004573BZHA**

|   |      |                |        |        |
|---|------|----------------|--------|--------|
| Ø | 0,57 | 1,35           |        | 8,0    |
|   | (Cu) | (PEG) (Al/Pet) | (CuSn) | (LSZH) |

**Class CPR acc. to UE 305/2011 (DoP)****B2ca s1a,d0,a1**

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.

**Standards**

ISO/IEC 11801 Class Fa

EN 50173

EN 50288-9-1

EIA-TIA 568

**Reaction to Fire**

EN50575

**Application**

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T

IEEE 802.5 16 MB: ISDN; FDDI; ATM

Power over Ethernet (PoE)/PoE+

**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                                                                          | (CuSn)    |        |    |
| Braid Optical Coverage                                                                                |           | 30     | %  |
| Outer sheath of Thermoplastic material - orange (RAL 2003) - halogen-free, low smoke, flame retardant | (LSZH-FR) | Ø 9,00 | mm |
| Printed each meter by blue ink-jet :                                                                  |           |        |    |

**CAVEL LAN 7A 1000 4573 B ZHA MADE IN ITALY CAT 7A S/FTP 4x2xAWG23/1 Euroclass B2ca s1a,d0,a1**  
**ISO-IEC 11801 EN50173-1 CEI-UNEL 36762 C-4 (U0 = 400V) gggaan m**

(gggaan=batch number m=meter marking)

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

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**Date****04/09/2020****Responsible****A. Bergaglio**

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**Physical data**

|                             |           |       |
|-----------------------------|-----------|-------|
| Weight of copper conductors | 22,90     | kg/km |
| Total weight of cable       | 89,80     | kg/km |
| Minimum bending radius x1/n | 40/80     | mm    |
| Max.Tensile Strength        | 150       | N     |
| Installation temperature    | 0 / +50   | °C    |
| Operating temperature       | -20 / +60 | °C    |

**Electrical data**

|                                       |         |         |         |
|---------------------------------------|---------|---------|---------|
| Characteristic impedance              | 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      |
| Coupling Attenuation                  |         | > 45    | dB      |

## Screening Attenuation (SA)

|                |         |
|----------------|---------|
| 30 - 100 MHz   | > 70 dB |
| 100 - 1000 MHz | > 60 dB |

## Transfer Impedance (Zt)

|        |             |
|--------|-------------|
| 1 MHz  | < 11 mOhm/m |
| 10 MHz | < 7 mOhm/m  |
| 30 MHz | < 6 mOhm/m  |

**Transmission-Characteristic (at 20°C)**

| Frequency<br>[MHz] | Attenuation<br>[dB/100m] | RL<br>[dB] | NEXT<br>[dB] | ACR-N<br>[dB/100m] |
|--------------------|--------------------------|------------|--------------|--------------------|
| 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              |
| 155,5              | 21,90                    | 25,00      | 80,00        | 58,10              |
| 250                | 28,10                    | 25,00      | 75,00        | 46,90              |
| 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               |

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