# UNITRONIC® LAN 500 Cat.6A

Ethernet cable for Category $6_A$/ class $E_A$ -verified up to 500 MHz

The LAN cable with a characteristic impedance of approximately 100 ohms is suitable for structured building wiring networks. It has solid core conductor and high-quality shielding.

### Info
CPR: Article number choice under www.lappkabel.com/cpr

Halogen-free

Interference signals

### Benefits
LAN cables for structured building cabling according to EN 50173 and ISO/IEC 11801

### Application range
Mainly used where the terminal density is very high, e.g. for wiring office, administration and development buildings in the tertiary area (floor wiring).
Cable length in tertiary area (horizontal area, floor) should not exceed a length of 100 m in accordance with the ISO/IEC 11801 and EN 50173 standards (90 m in cable duct + 10 m in working area)

### Product features
Transfer of digital and analogue data signals
Flame retardant acc. to IEC 60332-1-2
2170195
2170196: flame retardant acc. to IEC 60332-1-2 and IEC 60332-3-24
IEEE 802.3: 10/100/1000Base-T, 10GBase-T IEEE 802.5: ISDN; FDDI; ATM

### Norm references / Approvals
Class EA out of the standard ISO/IEC 11801 corresponds to Cat.6A
LAN Cat.6A cables from Lapp Kabel for "Structured Cabling Systems" meet the requirements in accordance with EIA/TIA-568 and TSB36, as well as ISO/IEC 11801 or EN 50173 (Class EA - permanent link).

### Product Make-up

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Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

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Solid conductor
U/FTP: aluminium compound foil as pair screening
F/FTP: aluminium compound foil as overall screening and pair screening
S/FTP: copper braid as overall screening and pair screening with aluminium compound foil
Outer sheath either as PVC (color grey RAL1015) or LSZH (color orange RAL2003)

## Technical Data

| | |
|---|---|
| Classification ETIM 5: | ETIM 5.0 Class-ID: EC000830<br>ETIM 5.0 Class-Description: Data cable |
| Classification ETIM 6: | ETIM 6.0 Class-ID: EC000830<br>ETIM 6.0 Class-Description: Data cable |
| Minimum bending radius: | during installation: 8 x outer diameter<br>Fixed installation: 4 x outer diameter |
| Characteristic impedance: | 100 Ω ± 15% |
| Temperature range: | Fixed installation: -20 °C to +60 °C<br>Flexing: 0 °C to +50 °C |

## Note

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.
Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
Packaging size: Coil 100 m; Drum (500; 1000) m
CAT.6a is available as a draft
Detailed data sheets are available upon request. Please specify the type/dimensions of the required cable.
Photographs and graphics are not to scale and do not represent detailed images of the respective products.
Prices are net prices without VAT and surcharges. Sale to business customers only.

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PRODUCT INFORMATION

| Article number | Article designation | Number of pairs and AWG per conductor | Outer diameter mm | Copper index (kg/km) | Weight (kg/km) |
|---|---|---|---|---|---|
| PVC version | | | | | |
| 2170143 | UNITRONIC® LAN 500 S/FTP Cat.6A | 4 x 2 x AWG23/1 | 7.3 | 27 | 58 |
| Halogen-free versions | | | | | |
| 2170195 | UNITRONIC® LAN 500 U/FTP Cat.6A LSZH | 4 x 2 x AWG23/1 | 7.4 | 21 | 52 |
| 2170196 | UNITRONIC® LAN 500 F/FTP Cat.6A LSZH | 4 x 2 x AWG23/1 | 7.6 | 22 | 56 |

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