


U.I. Lapp GmbH	<b>PRODUCT INFORMATION</b>	
	<b>UNITRONIC® LAN 500 - Cat.6A</b>	12.09.2012

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



### Info

EIA = Association des Industries Electronique  
TIA = Telecommunication Industries Association  
TSB = Technical Systems Bulletin

### 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)

### Design

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  
Solid conductor  
outer sheath either as PVC or LSZH

### Approvals (Norm references)

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 features

Transfer of digital and analogue data signals  
The characteristic impedance of this cable is 100 Ohm  $\pm$ 15 %  
IEEE 802.3: 10/100/1000Base-T, 10GBase-T IEEE 802.5: ISDN; FDDI; ATM  
Outer sheath: PVC - colour light ivory similar to RAL 1015  
Outer sheath: LSZH - colour light orange similar to RAL 2003

### Remark

Copper price basis: EUR 150/100kg. Refer to Appendix T17 for the definition and calculation of copper-related surcharges.  
Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://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 are not to scale and do not represent detailed images of the respective products.

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**Technical Data**

Minimum bending radius:

during installation: 8 x outer diameter  
Fixed installation: 4 x outer diameter

Temperature range:

Operating temperature: -20 °C to +60 °C  
During installation: 0 °C to +50 °C

Characteristic impedance:

100 Ohm +- 15%

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Part number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
PVC version					
2170143	500 S/FTP Cat.6A	4 x 2 x AWG23/1	7,7	27.0	58
Halogen-free versions					
2170195	500 U/FTP Cat.6A LSZH	4 x 2 x AWG23/1	7,4	21.0	52
2170196	500 F/FTP Cat.6A LSZH	4 x 2 x AWG23/1	7,6	22.0	56