

## ETHERLINE® FD CAT.6A

Ethernet cable Category 6<sub>A</sub>, Class EA for highly flexible use - verified up to 500 MHz

Industrial Ethernet cable Cat.6A for highflexible use in drag chain, 4 pairs, PVC or PUR outer sheath with UL-approval, 4x2xAWG24/7

### Info

CAT.6A for drag chain, qualified for 10Gbit/s  
For PROFINET applications with 4 pairs



Supplementary automation components from Lapp



Mechanical and plant engineering



Wind Energy



Mechanical resistance



Power chain



Robust



Interference signals



UV-resistant

### Benefits

For use in power chains and moving machinery parts in dry or damp rooms

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Product Management [www.lappkabel.de](http://www.lappkabel.de)

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02\_03.16

## ETHERLINE® FD CAT.6A

4pair: 100Mbit/s up to 10 Gbit/s for Industrial Ethernet  
Premium screening against electromagnetic interference  
Can be used for Industrial Ethernet in harsh industrial environments

### Application range

For highly flexible applications  
(e.g. power chains)  
Wiring of machines, tools, devices, appliances and control cabinets  
suitable for EtherCAT and EtherNet/IP applications

### Product features

PUR version is halogen-free according to VDE 0472-815  
Oil-resistant acc. IEC 60811-2-1  
CAT.6A for drag chain, qualified for 10Gbit/s  
Meets the requirements according to CAT.6A, ISO/IEC 11801 and EN 50173  
min. 2.5 million bending cycles in the power chain

### Norm references / Approvals

electrical requirements acc. to IEC 61156-6  
PUR cable is UL/CSA-certified (CMX)  
PUR versions: UL AWM Style 21576  
PVC cable is UL/CSA-certified (CM)  
Flame retardant acc. to IEC 60332-1-2

### Product Make-up

7-wire tinned stranded copper conductor  
Core insulation: Based on Polyolefin  
S/FTP: copper braid as overall screening and pair screening with aluminium compound foil  
Outer sheath: PUR/PVC  
Colour: green (based on RAL 6018)

### Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000830 ETIM 6.0 Class-Description: Data cable
Minimum bending radius:	Fixed installation: 8 x outer diameter Flexing: 15 x outer diameter
Characteristic impedance:	nom. 100 Ω acc. to IEC 61156-6
Temperature range:	Cable with PUR jacket Fixed installation: -40 °C to +80 °C Flexing: -30 °C to +70 °C Cable with PVC jacket Fixed installation: -40 °C to +80 °C Flexing: -10 °C bis +70 °C

### Note

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

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## **ETHERLINE® FD CAT.6A**

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.  
UL certifications can be found in the data sheet.

**ETHERLINE® FD CAT.6A**

Article number	Article designation	Number of pairs and AWG per conductor	Core diameter in mm	Outer diameter mm	Copper index (kg/km)	Weight (kg/km)
PVC sheath						
2170485	ETHERLINE® FD CAT.6 <sub>A</sub>	4x2xAWG24/7	1.3	8.9	44	88
PUR outer sheath, halogen-free						
2170484	ETHERLINE® FD P CAT.6 <sub>A</sub>	4x2xAWG24/7	1.3	8.9	44	90