

## ETHERLINE® PN CAT.6A FD FC

Ethernet cable Category 6A, Class EA for highly flexible use with FC inner sheath - 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

Fast and easy cable preparation by FC inner sheath



LAPP KABEL STUFGART ETHERLINE® Cat.6, FD FC 4x2xAWG24/7



Supplementary automation components from Lapp



Mechanical and plant engineering



Wind Energy



Flame-retardant



Mechanical resistance



Assembly time



Power chain



Robust

Last Update (25.04.2024)

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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® PN CAT.6A FD FC



Interference signals



UV-resistant

### Benefits

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

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 outer sheath is highly resistant to mineral oils and abrasion

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

### Norm references / Approvals

electrical requirements acc. to IEC 61156-6

UL approvals see data sheet

Flame retardant acc. to IEC 60332-1-2

### Product Make-up

7-wire bare stranded copper conductor

Core insulation: Based on Polyolefin

SF/UTP: braid of tinned copper wire and plastic laminated aluminum foil as overall screening, 2 cores stranded to pair, 4 pairs stranded to bundle with central cross

Inner sheath: halogen-free compound

Outer sheath: PUR, halogen-free/PVC

Colour: green (based on RAL 6018)

### Technical Data

Peak operating voltage:	(not for power applications) 125 V
Minimum bending radius:	Flexing: 15 x outer diameter Fixed installation: 8 x cable diameter
Test voltage:	Core/Core: 1500 V AC Core/Screen: 1000 V AC
Characteristic impedance:	100 Ohm
Temperature range:	Fixed installation PVC: -40 °C bis +80 °C PUR: -40 °C bis +80 °C Flexing PVC: -10 °C to +70 °C PUR: -30 °C to +70 °C

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### Note

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

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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.

**ETHERLINE® PN CAT.6A FD FC**

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)
2170590	ETHERLINE PN Cat. 6A P FD FC	4x2xAWG24/7	1.05	8.9	52	106
2170591	ETHERLINE® PN Cat. 6A Y FD FC	4x2xAWG24/7	1.05	8.9	52	106