

## ETHERLINE® PN Cat.6A FLEX FC

Ethernet cable Category 6<sub>A</sub>, Class E<sub>A</sub> for flexible use with FC inner sheath - verified up to 500 MHz

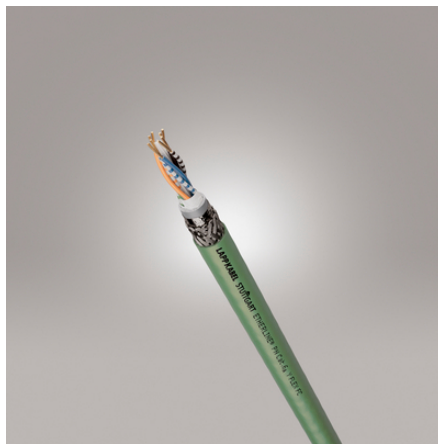
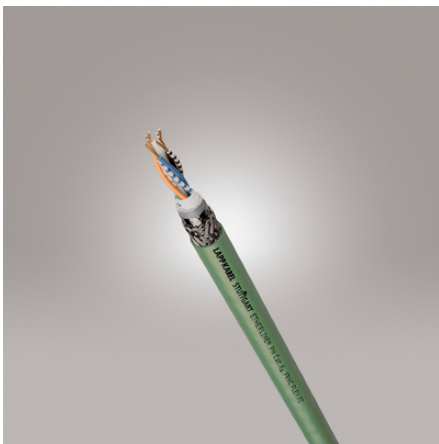
Industrial Ethernet cable Cat.6<sub>A</sub> with FC inner sheath for flexible use, PROFINET Type B, 4 pairs, PVC or FRNC outer sheath, 4x2xAWG23/7

### Info

For PROFINET applications with 4 pairs

CAT.6Aqualified for 10Gbit/s

Fast and easy cable preparation by FC inner sheath



LAPP KABEL STUFGART ETHERLINE® PN Cat.6, FLEX FC 4x2xAWG23/7



Supplementary automation components from Lapp



Mechanical and plant engineering



Suitable for outdoor use



Flame-retardant



Assembly time



Interference signals



UV-resistant

### Benefits

Can be used in dry or damp rooms

Screened against interference

Can be used for Industrial Ethernet in harsh industrial environments

Last Update (29.11.2020)

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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 FLEX FC

4pair: 100Mbit/s up to 10 Gbit/s for Industrial Ethernet

### Application range

for industrial secondary and tertiary cabling according to EN 50173-3  
ISO/IEC 24702

Wiring of machines, tools, devices, appliances and control cabinets  
suitable for EtherCAT and EtherNet/IP applications

For flexible applications  
(7-wire stranded conductor)

### Product features

CAT.6A for flexible application, qualified for 10Gbit/s

Meets the requirements according to CAT.6A, ISO/IEC 11801 and EN 50173

High-quality, double screening ensures high transmission reliability in areas with electromagnetic interference

The oil-resistant PVC sheath enables usage in industrial environments

Robust, halogen-free FRNC outer sheath

### Norm references / Approvals

UL approvals see data sheet

Flame retardant acc. to IEC 60332-1-2

### Product Make-up

7-wire bare stranded copper conductor

Core insulation: PE

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

PVC or FRNC jacket material

Colour: green (based on RAL 6018)

### Technical Data

Classification ETIM 5:

ETIM 5.0/6.0 Class-ID: EC000830

ETIM 5.0/6.0 Class-Description: Data cable

Peak operating voltage:

(not for power applications) 125 V

Minimum bending radius:

Flexing: 8 x outer diameter

Fixed installation: 4 x outer diameter

Test voltage:

Core/Core: 1500 V AC

Core/Screen: 1000 V AC

Characteristic impedance:

nom. 100  $\Omega$  acc. to IEC 61156-5

Temperature range:

Fixed installation: -40°C to +80°C

Flexing: -5°C to +50°C

### Note

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

PROFINET® is a registered trademark of the PNO (PROFIBUS user organisation)

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 FLEX FC**

Article number	Article designation	Number of pairs and AWG per conductor	Core diameter in mm	Outer diameter mm	Copper index (kg/km)
PVC jacket					
2170586	ETHERLINE® PN CAT.6 <sub>A</sub> Y FLEX FC	4x2xAWG23/7	1.15	8.9	57
Halogen-free jacket					
2170587	ETHERLINE® PN CAT.6 <sub>A</sub> FRNC FLEX FC	4x2xAWG23/7	1.15	8.9	57

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