

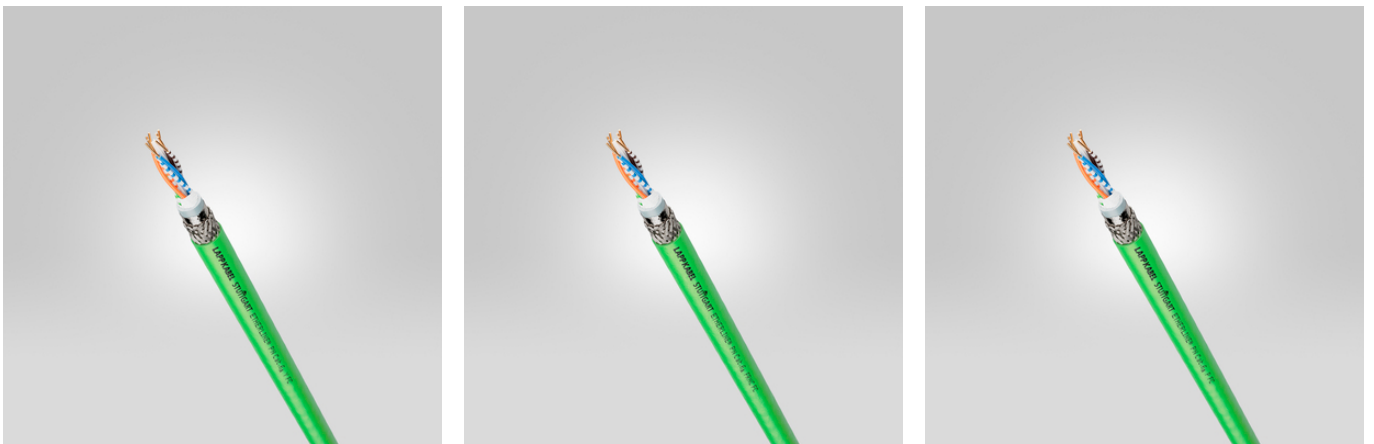
## ETHERLINE® PN Cat.6A FC

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

Industrial Ethernet cable Cat.6<sub>A</sub> for fixed installation with FC inner sheath halogenfree, PVC or PUR outer sheath, design 4x2xAWG23/1

### Info

Fast and easy cable preparation by FC inner sheath  
 For PROFINET applications with 4 pairs  
 CAT.6<sub>A</sub> qualified for 10Gbit/s



Supplementary automation components from Lapp



Mechanical and plant engineering



Flame-retardant



Mechanical resistance



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

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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 FC

### 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

### Product features

The oil-resistant PVC sheath enables usage in industrial environments

Robust, halogen-free FRNC outer sheath

PUR outer sheath is highly resistant to mineral oils and abrasion

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

### Norm references / Approvals

UL approvals see data sheet

Flame retardant acc. to IEC 60332-1-2

### Product Make-up

Solid bare copper wire AWG23

Core insulation made of polyethylene (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

Colour: green (based on RAL 6018)

### Technical Data

Peak operating voltage:	(not for power applications) 125 V
Minimum bending radius:	Fixed installation: 8 x outer diameter
Test voltage:	see data sheet
Characteristic impedance:	nom. 100 $\Omega$ acc. to IEC 61156-5
Temperature range:	See data sheet

### 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](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: coil  $\leq$  30 kg or  $\leq$  250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

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Prices are net prices without VAT and surcharges. Sale to business customers only.

**ETHERLINE® PN Cat.6A 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)
PVC jacket						
2170583	ETHERLINE® PN CAT.6 <sub>A</sub> Y FC	4x2xAWG23/1	1.1	8.7	53	98
Halogen-free jacket						
2170584	ETHERLINE® PN CAT.6 <sub>A</sub> FRNC FC	4x2xAWG23/1	1.1	8.7	53	91
PUR outer sheath, halogen-free						
2170585	ETHERLINE® PN CAT.6 <sub>A</sub> P FC	4x2xAWG23/1	1.1	8.7	53	99

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