

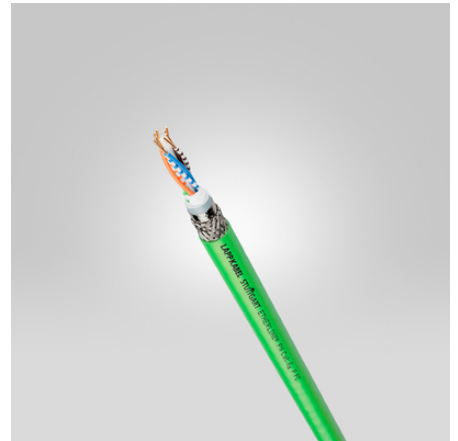
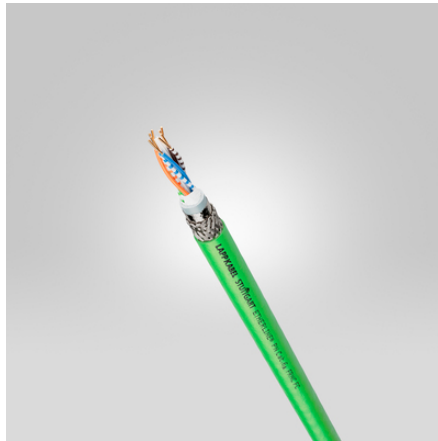
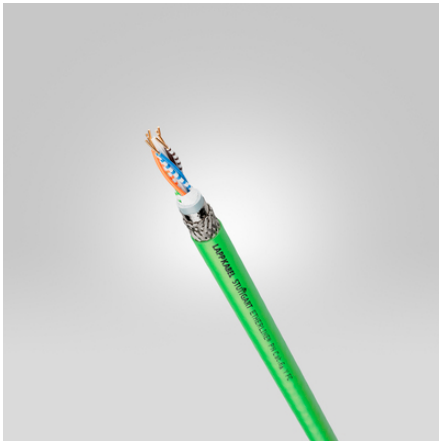
## ETHERLINE® PN Cat.6A FC

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

Last Update (03.05.2024)

©2024 Lapp Group - Technical changes reserved

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).

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

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 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

## ETHERLINE® PN Cat.6A FC

