

## ETHERLINE® PN Cat.6A FLEX

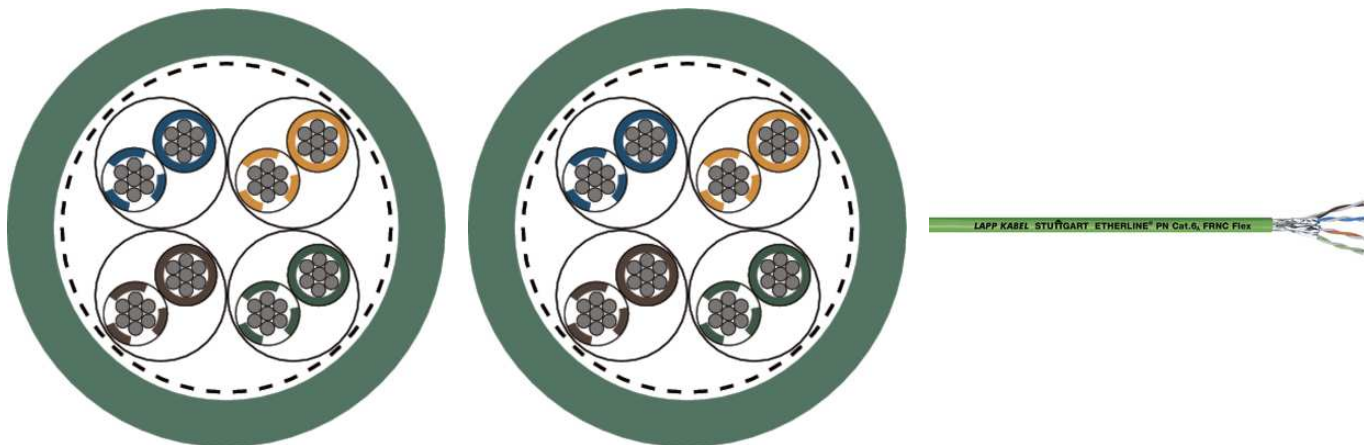
Flexible use

Industrial Ethernet cable Cat.6A for flexible use, 4 pairs, PVC or FRNC outer sheath with UL-approval, 4x2xAWG23/7

### Info

For PROFINET applications with 4 pairs

CAT.6A qualified for 10Gbit/s



UV-resistant



Interference signals



Mechanical and plant engineering



Kompletterande automationskomponenter från Lapp



Suitable for outdoor use



Flame-retardant

### 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 FLEX

### Application range

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

At 100 Mbit/s: max 90 m cable length

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

### Norm references / Approvals

PVC cable is UL/CSA-certified (CMG)

ETHERLINE® PN Cat.6A Y FLEX: ECOLAB®

Industry standard for innovation and efficiency in the field of professional cleaning and disinfection

FRNC cable is UL/CSA-certified (CM)

### Product Make-up

7-wire tinned stranded copper conductor

Core insulation: PE

S/FTP: copper braid as overall screening and pair screening with aluminium compound foil

PVC or FRNC jacket material

Colour: green (based on RAL 6018)

### Technical Data

|                           |                                                                                                                                 |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Classification ETIM 5:    | ETIM 5.0 Class-ID: EC000830<br>ETIM 5.0 Class-Description: Data cable                                                           |
| Classification ETIM 6:    | ETIM 6.0 Class-ID: EC000830<br>ETIM 6.0 Class-Description: Data cable                                                           |
| Peak operating voltage:   | (not for power applications) 125 V                                                                                              |
| Minimum bending radius:   | Flexing: 15 x outer diameter<br>Fixed installation: 8 x outer diameter                                                          |
| Characteristic impedance: | 100 ± 15 Ohm (> 1 MHz)                                                                                                          |
| Temperature range:        | cable halogenfree compound<br>Fixed installation: -25°C to +80°C<br>cable with PVC jacket<br>Fixed installation: -40°C to +80°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.

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| Article number    | Article designation                          | Number of pairs<br>and AWG per conductor | Core diameter in mm | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|-------------------|----------------------------------------------|------------------------------------------|---------------------|---------------------|----------------------|----------------|
| PVC outer sheath  |                                              |                                          |                     |                     |                      |                |
| 2170930           | ETHERLINE PN Cat.6 <sub>A</sub><br>Y FLEX    | 4 x 2 x AWG23/7                          | 1.52                | 8.8                 | 48                   | 92             |
| FRNC outer sheath |                                              |                                          |                     |                     |                      |                |
| 2170931           | ETHERLINE PN Cat.6 <sub>A</sub><br>FRNC FLEX | 4 x 2 x AWG23/7                          | 1.52                | 8.8                 | 48                   | 87             |

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