

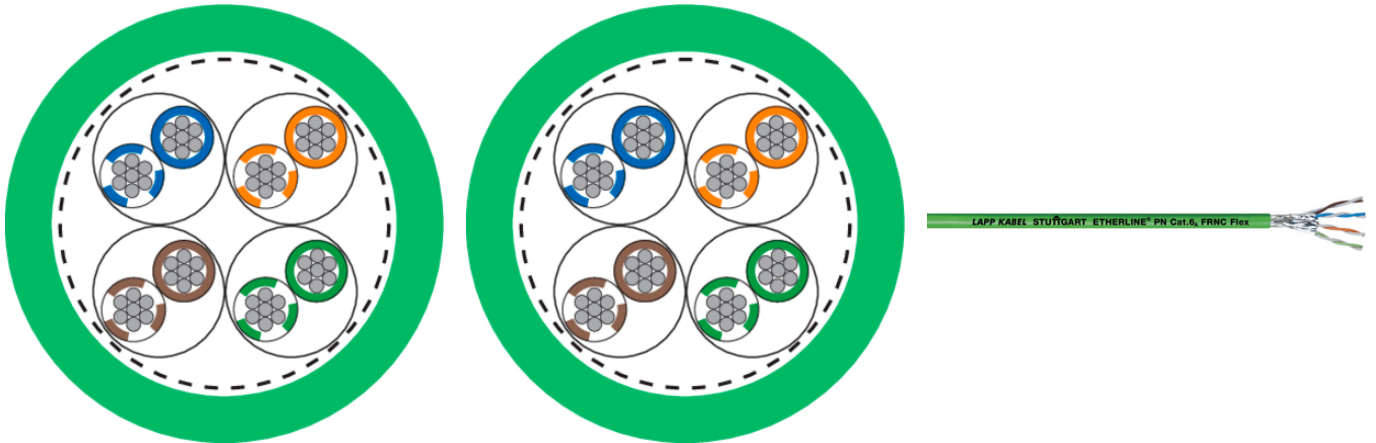
## ETHERLINE® PN Cat.6A FLEX

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.6<sub>A</sub> qualified for 10Gbit/s



Supplementary automation components from Lapp



Mechanical and plant engineering



Suitable for outdoor use



Flame-retardant



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

### Application range

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

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You can find the current technical data in the corresponding data sheet.

PN 0456 / 02\_03.16

## ETHERLINE® PN Cat.6A FLEX

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.6<sub>A</sub> 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

UL approvals see data sheet  
ETHERLINE® PN Cat.6A Y FLEX: ECOLAB®  
Industry standard for innovation and efficiency in the field of professional cleaning and disinfection

### 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 5.0/6.0 Class-ID: EC000830<br>ETIM 5.0/6.0 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: | nom. 100 Ω acc. to IEC 61156-5  |
| Temperature range:        | cable halogenfree compound<br>Fixed installation: -25 °C to +80 °C<br>Occasional flexing: -10 °C to +80 °C<br>cable with PVC jacket<br>Fixed installation: -40 °C to +80 °C<br>Occasional flexing: -10 °C to +70 °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

| 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 outer sheath  |   |                                       |                     |                   |                      |                |
| 2170930           | ETHERLINE PN Cat.6 <sub>A</sub> Y FLEX    | 4 x 2 x AWG23/7                       | 1.5                 | 8.8               | 48                   | 92             |
| FRNC outer sheath |   |                                       |                     |                   |                      |                |
| 2170931           | ETHERLINE PN Cat.6 <sub>A</sub> FRNC FLEX | 4 x 2 x AWG23/7                       | 1.5                 | 8.8               | 48                   | 87             |

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