

## ETHERLINE® FD bioP Cat.5e

Ethernet cable Category 5e, Class D for flexible use - verified up to 100 MHz

Highly flexible Cat.5e Ethernet cable (1000 Mbit/s) with outer sheath made of partially bio-based plastic, for constantly flexing use in cable chains, with UL approval.

### Info

Industrial Ethernet cable

For highly flexible applications

Outer shell made of bio-based plastic reduces dependence on fossil raw materials and reduces the CO2 footprint



Supplementary automation components from Lapp



Suitable for outdoor use



Halogen-free



Mechanical resistance



Power chain



Robust



Interference signals

### Benefits

The sustainable variant with the bio-based outer sheath consists of more than 40% renewable raw materials (according to ASTM D6866). The product properties are the same as for the standard variant made of purely fossil raw materials.

Last Update (27.04.2024)

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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.

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## ETHERLINE® FD bioP Cat.5e

The outer sheath made of partially bio-based plastic reduces dependence on fossil fuels and reduces the carbon footprint.  
Fast information exchange through ETHERNET technology. Cat.5e performance up to 1000 Mbit/s.  
UL-/CSA-approval according to technical data allows use of the product in the North American area.  
Halogen-free and flame-retardant materials reduce the possible hazards in the event of a fire.

### Application range

Also suitable for EtherCAT and EtherNET/IP applications.  
Especially for environments where electromagnetic compatibility (EMC) is required.  
Cable design allows highly flexible, continuously flexing use in moving machine parts and in the cable chain.  
Suitable for patch cable assembly up to a cable length of 60 m.  
The bio-TPU outer sheath is insensitive to mineral-oil-based lubricants and resistant to many chemicals.

### Product features

Premium screening against electromagnetic interference  
Halogen-free outer sheath  
cables with PUR jacket: 1000 V UL- rating for installation next to power cables

### Norm references / Approvals

UL AWM Style 21576  
Flame-retardant according IEC 60332-1-2  
Halogen-free according to VDE 0472-815

### Product Make-up

Bare stranded copper wire, 26AWG (19 x 0.10), (0.14 mm<sup>2</sup>)  
Inner sheath: thermoplastic elastomer, halogen-free  
Screening: wrapped with braided tinned-copper wires  
bio-based PUR outer sheath  
Colour: water blue (similar to RAL 5021)

### 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:   | Fixed installation: 8 x outer diameter<br>Flexing: 15 x outer diameter  |
| Characteristic impedance: | nom. 100 Ω acc. to IEC 61156-6  |
| Temperature range:        | Fixed installation: VDE -30°C to +80°C; UL/CSA -30°C to +80°C<br>Flexing: VDE -5°C to +50°C; UL/CSA -5°C to +80°C |

### Note

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) |
|----------------|--|--|---------------------|-------------------|----------------------|----------------|
| 21704891       | ETHERLINE FD bioP<br>Cat.5e 4x2x26/19AWG | 4x2x26/19AWG                             | 1.03                | 6.4               | 27                   | 56             |