

## ETHERLINE® Cat.5e Flex

Flexible use

Industrial Ethernet cable Cat.5e for flexible use (continuous movement)  
2 or 4 pairs, halogen-free, PUR with AWM-approval, design 4x2xAWG26/7

### Info

Industrial Ethernet cable

Cat.5e

Only for patch cable applications (max. 60 m)



Interference signals



Robust



Mechanical resistance



Halogen-free



Automation & fältinstallation

### Benefits

Seamless communication from the sensor/actuator level to the internet possible

Shielded against interference signals

Can be used in dry or damp rooms

Can be used for Industrial Ethernet in harsh industrial environments

PUR cables: 1000 V UL- rating for installation next to power cables

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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® Cat.5e Flex

### Application range

2-pair: 10/100 Mbit/s for Industrial Ethernet  
4-pair: 10/100/1000 Mbit/s for Industrial Ethernet  
suitable for EtherCAT and EtherNet/IP applications  
For flexible applications (7-wire braided conductor)  
Only for patch cable applications (max. 60 m)

### Product features

high-quality, double screening ensures high transmission reliability in areas with electromagnetic interference  
Halogen-free outer sheath  
PUR outer sheath is highly resistant to mineral oils and abrasion

### Norm references / approvals

PVC version with UL/CSA (CMX) certification  
PUR versions: UL AWM Style 21576  
Flame-retardant according to IEC 60332-1-2  
Cables with PUR or halogen-free material: halogen-free according to IEC 60754-1  
(amount of halogen acidic gas)  
Corrosiveness of combustion gas according to IEC 60754-2 (degree of acidity)

### Design

Braided conductor, bare, 7-wire  
Core insulation made of foam skin  
2- or 4-pair version  
SF/UTP: Braid of tin-plated copper wire and laminated aluminium foil as overall shielding  
Outer sheath as either PUR or LSZH  
Colour: water blue (RAL 5021)  
PVC outer sheath colour: green (similar to RAL 6018)

### Technical Data

Classification:	ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable
Peak operating voltage:	(not for power applications) 125 V
Minimum bending radius:	Fixed installation: 8 x outer diameter Flexing: 15 x outer diameter
Test voltage:	Core/Core: 1000 V Core/Shield: 500 V
Characteristic impedance:	100 Ohm $\pm$ 3 %
Temperature range:	Cable with PUR sheath Fixed installation: VDE -30°C to +80°C; UL/CSA -30°C to +80°C Flexing: VDE -5°C to +50°C; UL/CSA -5°C to +80°C Cable, halogen-free outer sheath Fixed installation: -30°C to +80°C Flexing: -5°C to +60°C Cable with PVC sheath Fixed installation: -40°C to +80°C Flexing: -10°C to +70°C

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### Note

Unless otherwise specified, the product values shown are nominal values. You can receive further values, such as tolerances, upon request if they are available and have been released for publication.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

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

Detailed data sheets are available upon request. Please specify the type/dimensions of the required cable

Photographs 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® Cat.5e Flex**

Article number	Article designation	Number of pairs and AWG per conductor	Max. outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
2170283	ETHERLINE® H Flex CAT.5e	2 x 2 x AWG26/7	5.9	19	43
PUR outer sheath, halogen-free					
2170284	ETHERLINE® P Flex CAT.5e	2 x 2 x AWG26/7	5.9	19	45
2170299	ETHERLINE® H Flex CAT.5e	4 x 2 x AWG26/7	6.3	25	48
PUR outer sheath, halogen-free					
2170300	ETHERLINE® P Flex CAT.5e	4 x 2 x AWG26/7	6.3	25	54
PVC outer sheath					
2170486	ETHERLINE® Y Flex CAT.5e	4 x2 x AWG26/7	6.4	30	54

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