



## ETHERLINE® Cat.5e

Fixed installation



### Info

- Industrial Ethernet cable
- Cat.5e

### Benefits

- Seamless communication from the sensor/actuator level to the Internet
- Screened against interference
- Can be used in dry or damp rooms
- Can be used for Industrial Ethernet in harsh industrial environments
- Cables with PUR jacket: 1000 V UL- rating for installation next to power cables

### Application range

- 2pair: 10/100 Mbit/s for Industrial Ethernet
- 4pair: 10/100/1000 Mbit/s for Industrial Ethernet
- Suitable for EtherCAT and EtherNet/IP applications
- Industrial use
- Fixed installation

### Product features

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

### Norm references / Approvals

- PUR versions: UL AWM Style 21576
- Flame retardant acc. to IEC 60332-1-2
- Halogen-free according to IEC 60754-1 (amount of halogen acid gas)  
Corrosiveness of combustion gases according to IEC 60754-2 (degree of acidity)

### Product Make-up

- Solid conductor
- Core insulation made of foam skin
- 2 or 4-pair version
- SF/UTP: braid of tinned copper wire and plastic laminated aluminum foil as overall screening
- Outer sheath as either PUR or LSZH
- Colour: water blue (RAL 5021)

### Technical data



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: 7.5 x outer diameter (2 pair cable)  
Fixed installation: 8 x outer diameter (4 pair cable)



**Test voltage**  
Core/core: 1000 V  
Core/screen: 500 V



**Characteristic impedance**  
100 Ohm +/- 15%



**Temperature range**  
cable with PUR jacket  
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 halogenfree compound  
fixed installation: -30°C to +80°C  
moved: -5°C to +60°C

Article number	Article designation	Number of pairs and AWG per conductor	Max. outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>2-pair version</b>					
<b>Halogen-free jacket</b>					
2170280	ETHERLINE® H CAT.5e	2 x 2 x AWG24/1	6.1	22	45
<b>PUR outer sheath, halogen-free</b>					
2170281	ETHERLINE® P CAT.5e	2 x 2 x AWG24/1	6.1	22	53
<b>4-pair version</b>					
<b>Halogen-free jacket</b>					
2170296	ETHERLINE® H CAT.5e	4 x 2 x AWG24/1	6.3	32	54
2170298	ETHERLINE® H-H CAT.5e	4 x 2 x AWG24/1	6.3 / 8.3	32	80
<b>PUR outer sheath, halogen-free</b>					
2170297	ETHERLINE® P CAT.5e	4 x 2 x AWG24/1	6.3	32	62

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

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

Packaging size: coil ≤ 30 kg or ≤ 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.

### Accessories

- Field-Terminable Connector RJ45 CAT.5e FM45 refer to page 476
- EPIC® DATA AX RJ45 Cat.6<sub>A</sub> refer to page 462
- EPIC® DATA 90 RJ45 Cat.6<sub>A</sub> refer to page 463
- EPIC® DATA HS RJ45F Cat.6<sub>A</sub> refer to page 464
- EPIC® DATA M12D refer to page 464
- EPIC® DATA M12X refer to page 465
- EPIC® DATA CCR FA refer to page 466
- SMART STRIP stripping tool
- DATA STRIP stripping tool refer to page 1001