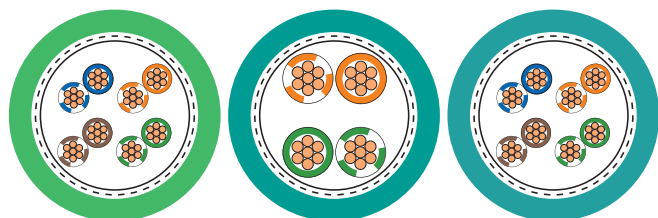




## ETHERLINE® Cat.5e FLEX

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



**Info**

- Industrial Ethernet cable
- Cat.5e
- Only for patch cable applications (max. 60 m)

### 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
- For flexible applications (7-wire stranded 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 IEC 60332-1-2
- Cable with PUR or halogenfree compound: Halogen-free according to VDE 0472-815

### Product Make-up

- Stranded conductor, bare, 7-wire
- 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)
- PVC jacket colour: green (based on RAL 6018)

### Technical data

**Classification ETIM 5/6**  
ETIM 5.0/6.0 Class-ID: EC000830  
ETIM 5.0/6.0 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/screen: 500 V

**Characteristic impedance**  
100 Ω ± 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  
flexing: -5°C to +60°C  
cable with PVC jacket  
Fixed installation: -40°C to +80°C  
flexing: -10°C to +70°C

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)
<b>2-pair version</b>						
<b>Halogen-free jacket</b>						
2170283	ETHERLINE® H Flex CAT.5e	2 x 2 x AWG26/7	0.95	5.6	19	43
<b>PUR outer sheath, halogen-free</b>						
2170284	ETHERLINE® P Flex CAT.5e	2 x 2 x AWG26/7	0.95	5.6	19	45
<b>4-pair version</b>						
<b>Halogen-free jacket</b>						
2170299	ETHERLINE® H Flex CAT.5e	4 x 2 x AWG26/7	0.95	6.1	25	48
<b>PUR outer sheath, halogen-free</b>						
2170300	ETHERLINE® P Flex CAT.5e	4 x 2 x AWG26/7	0.95	6.1	25	54
<b>PVC outer sheath</b>						
2170486	ETHERLINE® Y Flex CAT.5e	4 x 2 x AWG26/7	0.9	6.4	30	54

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.  
Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.  
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 and graphics 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 472
- EPIC® DATA AX RJ45 Cat.6<sub>A</sub> refer to page 459
- EPIC® DATA 90 RJ45 Cat.6<sub>A</sub> refer to page 459
- EPIC® DATA HS RJ45F Cat.6<sub>A</sub> refer to page 461
- EPIC® DATA M12D refer to page 462
- EPIC® DATA M12X refer to page 462
- KNIPEX Elektronik Super Knips® refer to page 983
- EPIC® DATA CCR FA refer to page 463
- DATA STRIP stripping tool refer to page 986
- Fibre Strip DC