



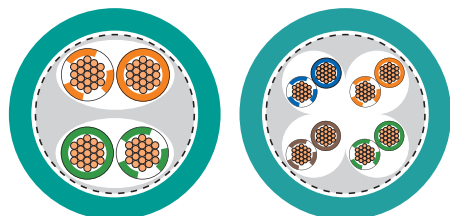
### ETHERLINE® Cat.5e FD

Ethernet cable Category 5e, Class D for use in drag chain applications - verified up to 100 MHz



#### Info

- Industrial Ethernet cable
- For highly flexible applications
- 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
- Industrial use
- 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
- Only for patch cable applications (max. 60 m)
- Suitable for EtherCAT and EtherNet/IP applications
- Power chain applications

#### Product features

- Premium screening against electromagnetic interference
- PUR outer sheath is highly resistant to mineral oils and abrasion
- Halogen-free outer sheath
- Cables with PUR jacket: 1000 V UL- rating for installation next to power cables

#### Norm references / Approvals

- PUR versions: 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
- 2 or 4-pair version
- Screening: wrapped with braided tinned-copper wires
- PUR outer sheath
- Colour: water blue (RAL 5021)

#### 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 +70°C;  
 UL/CSA -5°C to +80°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>						
2170289	ETHERLINE® FD P CAT.5e	2 x 2 x AWG26/19	1	5.9	20	48
<b>4-pair version</b>						
2170489	ETHERLINE® FD P CAT.5e	4 x 2 x AWG26/19	1	6.3	27	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 100 m; Drum (500; 1000) m  
 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

- Connector RJ45 CAT.6 Hirose TM21 refer to page 473
- 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
- KNIPEX Elektronik Super Knips® refer to page 983
- DATA STRIP stripping tool refer to page 986
- Fibre Strip DC