

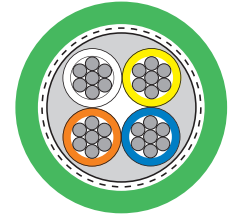


**ETHERLINE® PN Cat.5 FD**

Highly flexible application

**Info**

- Highly flexible application
- For PROFINET applications



**Benefits**

- Can be used in dry or damp rooms
- Screened against interference
- Can be used for Industrial Ethernet in harsh industrial environments
- 2pair: 10/ 100 Mbit/s for Industrial Ethernet

**Application range**

- Power chain applications
- Wiring of machines, tools, devices, appliances and control cabinets
- Max. cable length for 100 Mbit/s is 85 m
- Suitable for EtherCAT and EtherNet/IP applications

**Product features**

- CAT.5-Performance
- PUR outer sheath is highly resistant to mineral oils and abrasion
- Flame-retardant according IEC 60332-1-2
- Optimized cable construction for power chain use
- Broad usages due to halogen-free materials

**Norm references / Approvals**

- UL/CSA type CMX (UL 444)

**Product Make-up**

- Fine-wire strand made of tinned-copper wires
- Star quad
- Colour-coded in accordance with PROFINET for Cat.5 applications
- Inner sheath: thermoplastic copolymer (FRNC)
- Overall screening with copper braid and plastic-laminated aluminium foil
- PUR outer sheath, halogen-free
- 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**  
Moved: 10 x outer diameter  
Fixed installation: 5 x outer diameter
- Test voltage**  
Core/core: 700 V  
Core/screen: 700 V
- Characteristic impedance**  
100 Ω ± 15%
- Temperature range**  
Fixed installation: -30°C to +70°C  
Flexing: -20°C to +60°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)
2170894	ETHERLINE® FD P FC CAT.5	2 x 2 x AWG22/7	1.5	6.5	31.3	63

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  
 PROFINET® is a registered trademark of the PNO (PROFIBUS user organisation)  
 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**

- EPIC® DATA PN AX RJ45 refer to page 458
- EPIC® DATA PN 90 RJ45 refer to page 458
- EPIC® DATA AX RJ45 Cat.6<sub>A</sub> IP68 refer to page 460
- EPIC® DATA M12D refer to page 462
- KNIPEX Elektronik Super Knips® refer to page 983
- FC STRIP stripping tool refer to page 986