



ETHERLINE® PN Cat.5 FD



Info

- Highly flexible application
- For PROFINET applications

Benefits

- Screened against interference
- For PROFINET applications type C
- Industrial use
- Can be used in dry or damp rooms

Application range

- Power chain applications
- Can be used for Industrial Ethernet in harsh industrial environments
- 2pair: 10/ 100 Mbit/s for Industrial Ethernet
- Suitable for EtherCAT and EtherNet/IP applications

Product features

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

Norm references / Approvals

- UL/CSA type CMX (UL 444)

Product make-up

- Stranded 7-wire bare conductor
- 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

- Peak operating voltage**
(not for power applications) 125 V
- Minimum bending radius**
Flexing: 8 x outer diameter
Fixed installation: 5 x cable diameter, once
- Test voltage**
Core/core: 700 V
Core/screen: 700 V
- Temperature range**
Fixed installation: -30°C to +70°C
Flexing: -20°C to +60°C
- Characteristic impedance**
100 Ohm +/- 15%

| Article number | Article designation | Number of pairs and AWG per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|--|--------------------------|---------------------------------------|---------------------|----------------------|----------------|
| For highly flexible applications (7-wire stranded conductor) = type C | | | | | |
| 2170894 | ETHERLINE® FD P FC CAT.5 | 2 x 2 x AWG22/7 | 6.5 | 31.3 | 63 |

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
 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

- Connector RJ45 Cat.5e for Profinet refer to page 423
- BUS M12 connectors that can be assembled
- Connector industry RJ45 Cat.6A 10 IP68 refer to page 424

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 ACCESSORIES
 APPENDIX