



**ETHERLINE® CAT.6 FD**

Highly flexible application

**Info**

- CAT.6 for drag chain!



**Benefits**

- Highly flexible data cable with PUR outer sheath, meets the highest service life requirements, even under harsh climatic conditions.
- Premium screening against electromagnetic interference

**Application range**

- For use in drag chains and moving machinery parts in dry or damp rooms
- Only for patch cable applications (max. 60 m)
- Suitable for EtherCAT and EtherNet/IP applications
- Plant engineering, machinery manufacturing
- 4pair: 10/100/1000 Mbit/s for Industrial Ethernet

**Product features**

- Flame-retardant according IEC 60332-1-2
- PUR outer sheath is resistant to most oils and hydraulic fluids
- CAT.6 for drag chain!
- LAN Cat.6 cables are specified up to 350 MHz
- Designed for 1...2 million bending/unbending cycles in the drag chain

**Norm references / Approvals**

- UL/CSA type CMX (UL 444)

**Product Make-up**

- Stranded conductor, tinned
- AWG 26 (19-wire)
- PP core insulation
- Inner sheath: thermoplastic copolymer (FRNC)
- SF/UTP: braid of tinned copper wire and plastic laminated aluminum foil as overall screening
- PUR outer sheath, halogen-free
- Colour: green (based on RAL 6018)

**Technical data**

- ETIM** ETIM 5.0 Class-ID: EC000830  
ETIM 5.0 Class-Description: Data cable
- Peak operating voltage**  
max. 100 V (not for power applications)
- Minimum bending radius**  
Fixed installation: 4 x outer diameter  
Flexing: 7.5 x outer diameter
- Test voltage**  
700 V
- Characteristic impedance**  
At 1 - 100 MHz: 100 ± 15 Ohm
- Temperature range**  
Fixed installation: -40°C to +80°C  
Flexing: -30°C to +80°C

| Article number             | Article designation | Number of pairs and AWG per conductor | Max. outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|----------------------------|---------------------|---------------------------------------|--------------------------|----------------------|----------------|
| <b>ETHERLINE® CAT.6 FD</b> |                     |                                       |                          |                      |                |
| 2170488                    | ETHERLINER CAT.6 FD | 4 x 2 x AWG26/19                      | 7.8                      | 31.7                 | 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  
 Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).  
 Photographs are not to scale and do not represent detailed images of the respective products.

**Accessories**

- 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
- DATA STRIP stripping tool refer to page 1001