⊛ **LAPP**

c(UL)us **EtherNet/IP**

# ETHERLINE® EC FLEX Cat.5e
Flexible use

ÖLFLEX®
UNITRONIC®
ETHERLINE®
HITRONIC®
EPIC®
SKINTOP®
SILVYN®
FLEXIMARK®
ACCESSORIES
APPENDIX

### ℹ Info
- For EtherCAT applications
- Cat.5e-Performance
- Only for patch cable applications (max. 60 m)
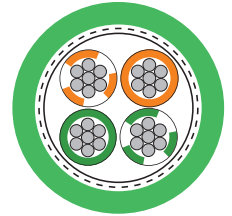


### Benefits
- Can be used for Industrial Ethernet in harsh industrial environments
- Can be used in dry or damp rooms
- Lower space requirement

### Application range
- Suitable for EtherCAT and EtherNet/IP applications
- For flexible applications (7-wire stranded conductor)
- Many applications with Industrial Ethernet, i.e. fixed installation and flexible use.
- For internal wiring of electric and electronic equipment in switch cabinets
- Only for patch cable applications (max. 60 m)

### Product features
- PUR (Polyurethane) Version with increased robustness, UV- resistance and halogen free
- Meets the requirements according to Cat. 5e and class D
- High-quality, double screening ensures high transmission reliability in areas with electromagnetic interference

### Norm references / Approvals
- Certification: UL/CSA type CMX in accordance with UL 444 and CSA C22.2 no. 214
- Flame-retardant according to UL VW1/ CSA FT1

### Product Make-up
- Stranded tinned 7-wire conductor
- Core insulation: PE
- Insulation colour-codes: orange/white-orange; green/white-green
- Star quad
- SF/UTP: braid of tinned copper wire and plastic laminated aluminum foil as overall screening
- PVC or PUR jacket material
- 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**
max. 100 V (not for power applications)

**Minimum bending radius**
Fixed installation: 4 x outer diameter
Moved: 10 x outer diameter

**Characteristic impedance**
$100 \, \Omega \pm 15\%$

**Temperature range**
Cable with PVC jacket
Fixed installation: -30°C to +80°C
Flexing: -5°C bis +50°C
Cable with PUR jacket
Fixed installation: -40°C to +80°C
Flexing:-30°C to +50°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) |
|---|---|---|---|---|---|---|
| **PVC outer sheath** | | | | | | |
| 2170430 | ETHERLINE® Y EC FLEX Cat.5e | 1 x 4 x AWG26/7 | 1.03 | 4.8 | 20 | 37 |
| **PUR outer sheath, halogen-free** | | | | | | |
| 2170431 | ETHERLINE® P EC FLEX Cat.5e | 1 x 4 x AWG26/7 | 1.03 | 4.8 | 20 | 35 |

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.
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® SENSOR M8 refer to page 391
- Field-Terminable Connector RJ45 CAT.5e FM45 refer to page 472
- KNIPEX Elektronik Super Knips® refer to page 983
- DATA STRIP stripping tool refer to page 986
- Fibre Strip DC