



ETHERLINE® Cat.5e

Fixed installation



Info

- Industrial Ethernet cable
- Cat.5e

Benefits

- Very low installation cost due to the use of Ethernet cables
- Screened against interference
- Seamless communication from the sensor/actuator level to the Internet
- Suitable for fixed installation in dry and damp rooms

Application range

- 2pair: 10/100 Mbit/s for Industrial Ethernet
- 4pair: 10/100/1000 Mbit/s for Industrial Ethernet
- Suitable for EtherCAT and EtherNet/IP applications
- Industrial use
- Fixed installation

Product features

- High-quality, double screening ensures high transmission reliability in areas with electromagnetic interference
- PUR outer sheath is highly resistant to mineral oils and abrasion
- Halogen-free outer sheath
- Flame-retardant according IEC 60332-1-2
- CAT.5e-Performance

Norm references / Approvals

- PUR versions: UL AWM Style 21576

Product make-up

- Solid conductor
- Core insulation made of foam skin
- SF/UTP: copper braid and foil screening as overall screening
- Outer sheath as either PUR or LSZH
- Colour: water blue (RAL 5021)
- 2 or 4-pair version

Technical data

- Peak operating voltage** (not for power applications) 125 V
- Minimum bending radius**
Fixed installation: 7.5 x outer diameter (2 pair cable)
Fixed installation: 8 x outer diameter (4 pair cable)
- Test voltage**
Core/core: 1000 V
Core/screen: 500 V
- Temperature range**
During installation: -5 °C to +60 °C
Fixed installation: -30°C to +80°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)
2-pair version					
Halogen-free compound					
2170280	ETHERLINE® H CAT.5e	2 x 2 x AWG24/1	5.8	22.0	45
PUR outer sheath, halogen-free					
2170281	ETHERLINE® P CAT.5e	2 x 2 x AWG24/1	5.8	22.0	53
4-pair version					
Halogen-free compound					
2170296	ETHERLINE® H CAT.5e	4 x 2 x AWG24/1	6.3	32.0	54
2170298	ETHERLINE® H-H CAT.5e	4 x 2 x AWG24/1	6.0 / 7.5	32.0	80
Outer sheath: PUR, halogen-free					
2170297	ETHERLINE® P CAT.5e	4 x 2 x AWG24/1	6.3	32.0	62

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

- Field-Terminable Connector RJ45 CAT.5e FM45 refer to page 436
- BUS M12 connectors that can be assembled
- Easy connect rail mount adapter Cat.6A refer to page 437
- Connector M12 x-coded Cat.6A 10G fieldmountable refer to page 425
- SMART STRIP stripping tool refer to page 911
- DATA STRIP stripping tool refer to page 911

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 ACCESSORIES
 APPENDIX