



ETHERLINE® Cat.5e

Ethernet cable Category 5e, Class D for fixed installation - verified up to 100 MHz

Info

- Industrial Ethernet cable
- Cat.5e



Benefits

- Seamless communication from the sensor/actuator level to the Internet
- Screened against interference
- Can be used in dry or damp rooms
- Can be used for Industrial Ethernet in harsh industrial environments
- Cables with PUR jacket: 1000 V UL- rating for installation next to power cables

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

Norm references / Approvals

- PUR versions: UL AWM Style 21576
- Flame retardant acc. to IEC 60332-1-2
- Halogenfree cables: halogenfree according to IEC 60754-1, IEC 60754-2
- PUR cables: halogenfree acc. to VDE 0472-815

Product Make-up

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

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
 Fixed installation: 7.5 x outer diameter
 Fixed installation: 8 x outer diameter (4 pair cable)

Test voltage
 Core/core: 1000 V
 Core/screen: 500 V

Characteristic impedance
 nom. 100 Ω acc. to IEC 61156-5

Temperature range
 Fixed installation: -30°C to +80°C
 During installation: -5°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)
2-pair version						
Halogen-free jacket						
2170280	ETHERLINE® H CAT.5e	2 x 2 x AWG24/1	1	5.6	22	45
PUR outer sheath, halogen-free						
2170281	ETHERLINE® P CAT.5e	2 x 2 x AWG24/1	1	5.8	22	45
4-pair version						
Halogen-free jacket						
2170296	ETHERLINE® H CAT.5e	4 x 2 x AWG24/1	1	6.1	32	54
2170298	ETHERLINE® H-H CAT.5e	4 x 2 x AWG24/1	1	6.1 / 8.1	32	80
PUR outer sheath, halogen-free						
2170297	ETHERLINE® P CAT.5e	4 x 2 x AWG24/1	1	6.1	32	62

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
 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 and graphics are not to scale and do not represent detailed images of the respective products.

Accessories

- EPIC® DATA RJ45 refer to page 447
- EPIC® DATA HS RJ45F Cat.6_A refer to page 449
- EPIC® DATA M12D refer to page 450
- EPIC® DATA M12X refer to page 450
- KNIPEX Electronics Super Knips® refer to page 955
- EPIC® DATA CCR FA refer to page 451
- DATA STRIP stripping tool refer to page 959