Fixed installation
Industrial Ethernet cable Cat.5e for fixed installation; halogenfree or PUR (AWM-approval) outer sheath material, design 2 or 4 x2xAWG24/1



Automation

Halogen-free

Mechanical resistance

Interference signals

Info
Industrial Ethernet cable
Cat.5e

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

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

Design
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

Norm references / Approvals
PUR versions: UL AWM Style 21576

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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

Remark

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.
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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%

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Part number	Article designation	Number of pairs and AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
2-pair versionHalogen-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 versionHalogen-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 / 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

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