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ÖLFLEX®
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ACCESSORIES
APPENDIX

cULus   cⓇULus   EtherNet/IP™

ETHERLINE® Cat.5e FLEX

Ethernet cable Category 5e, Class D for flexible use – verified up to 100 MHz

LAPP KABEL STUTTGART ETHERLINE® Y Flex CAT.5e 4x2xAWG26/7

LAPP KABEL STUTTGART ETHERLINE® P Flex CAT.5e

2170283/2170284   **2170299/2170300**   **2170486**

Info

- Industrial Ethernet cable
- Cat.5e
- Only for patch cable applications (max. 60 m)

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
- For flexible applications (7-wire stranded conductor)
- Only for patch cable applications (max. 60 m)

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

Norm references / Approvals

- PUR cables: halogenfree acc. to VDE 0472-815
- PVC version with UL/CSA (CMX) certification
- PUR versions: UL AWM Style 21576
- Flame-retardant according IEC 60332-1-2
- Halogenfree cables: halogenfree according to IEC 60754-1, IEC 60754-2

Product Make-up

- Stranded conductor, bare, 7-wire
- 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 PVC, PUR or LSZH
- Colour: water blue (similar to RAL 5021)
- PVC jacket colour: green (similar to RAL 6018)

Technical data

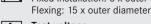**Classification ETIM 5/6**
ETIM 5.0/6.0 Class-ID: EC000830
ETIM 5.0/6.0 Class-Description: Data cable

Peak operating voltage
(not for power applications) 125 V

Minimum bending radius
Fixed installation: 8 x outer diameter
Flexing: 15 x outer diameter

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

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

Temperature range
cable with PUR jacket
Fixed installation: VDE -30°C to +80°C;
UL/CSA -30°C to +80°C
flexing: VDE -5°C to +50°C;
UL/CSA -5°C to +80°C
cable halogenfree compound
Fixed installation: -30°C to +80°C
flexing: -5°C to +60°C
cable with PVC jacket
Fixed installation: -40°C to +80°C
flexing: -10°C to +70°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						
2170283	ETHERLINE® H Flex CAT.5e	2 x 2 x AWG26/7	1	5.6	19	43
PUR outer sheath, halogen-free						
2170284	ETHERLINE® P Flex CAT.5e	2 x 2 x AWG26/7	1	5.6	19	45
4-pair version						
Halogen-free jacket						
2170299	ETHERLINE® H Flex CAT.5e	4 x 2 x AWG26/7	1	6.1	25	48
PUR outer sheath, halogen-free						
2170300	ETHERLINE® P Flex CAT.5e	4 x 2 x AWG26/7	1	6.1	25	54
PVC outer sheath						
2170486	ETHERLINE® Y Flex CAT.5e	4 x2 x AWG26/7	1	6.2	30	54

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