Data communication systems for ETHERNET technology
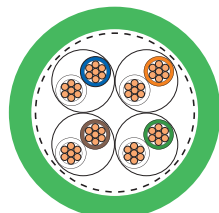
⊛ LAPP

PROFINET, Cat.7 • Type B – Cables for flexible applications

NEW

ETHERLINE® PN Cat.7 FLEX

Ethernet cable Category 7, Class F for flexible application – verified up to 600 MHz

LAPP KABEL STUTTGART ETHERLINE® PN Cat.7 FLEX 4x2xAWG23/7

Info

- Industrial Ethernet cable
- For PROFINET applications with 4 pairs
- Cat.7 qualified for 10Gbit/s

Benefits

- Can be used in dry or damp rooms
- Screened against interference
- Can be used for Industrial Ethernet in harsh industrial environments
- 4pair: 100Mbit/s up to 10 Gbit/s for Industrial Ethernet

Application range

- For industrial secondary and tertiary cabling according to EN 50173-3 ISO/IEC 24702
- Wiring of machines, tools, devices, appliances and control cabinets
- Max. cable lenght for 100 Mbit/s up to 10 Gbit/s is 100 m
- Suitable for EtherCAT and EtherNet/IP applications

Product features

- Robust, halogen-free outer sheath
- The oil-resistant PVC sheath enables usage in industrial environments
- High-quality, double screening ensures high transmission reliability in areas with electromagnetic interference

Norm references / Approvals

- For fixed installation - UL/CSA CMG (PVC) and UL/CSA CM (FRNC) certification

Product Make-up

- 7-wire bare stranded copper conductor
- Core insulation: foamed polyethylen (PE)
- S/FTP: copper braid as overall screening and pair screening with aluminium compound foil
- Colour: green (based on RAL 6018)

Technical data

Peak operating voltage
(not for power applications) 125 V

Minimum bending radius
Fixed installation: 4 x outer diameter
Flexing: 8 x outer diameter

Z∞ Characteristic impedance
nom. 100 Ω acc. to IEC 61156-6

Temperature range
Fixed installation: -30°C to +80°C
Occasional flexing: -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)
ETHERLINE® PN Cat.7 FLEX					
2170597	ETHERLINE® PN CAT.7 Y FLEX	4x2xAWG23/7	1.53	8.7	45
2170598	ETHERLINE® PN CAT.7 FRNC FLEX	4x2xAWG23/7	1.53	8.7	45

Photographs and graphics are not to scale and do not represent detailed images of the respective products.
UL certifications can be found in the data sheet.

Accessories

- EPIC® DATA AX RJ45 Cat.6$_A$ refer to page 459
- EPIC® DATA 90 RJ45 Cat.6$_A$ refer to page 459
- EPIC® DATA AX RJ45 Cat.6$_A$ IP68 refer to page 460
- EPIC® DATA M12X refer to page 462
- EPIC® DATA CCR FA refer to page 463

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