Data communication systems for ETHERNET-Technology

LAPP GROUP

Accessories for INDUSTRIAL networking
LAN cables for structured industrial cabling

ETHERLINE® Cat.5 ARM
Fixed installation

LAPP KABEL STUTTGART ETHERLINE® Y2Y ARM TYPE A CAT.5

■ Benefits
- Very low installation cost due to the use of Ethernet cables
- EMC-optimised
- With armouring for improved rodent protection
- Screened against interference

■ Application range
- Can be used for Industrial Ethernet in harsh industrial environments
- 2pair: 10/100 Mbit/s for Industrial Ethernet
- Suitable for outdoor use, UV-resistant
- PROFINET application Type C but for fixed installation
- Suitable for direct burial

■ Product features
- CAT.5-Performance
- Colour-coded in accordance with PROFINET for Cat.5 apllications

■ Product make-up
- Solid and bare copper conductor
- Core insulation: PE
- Overlapping plastic tape
- SF/UTP: copper braid and foil screening as overall screening
- Inner sheath made of PVC (green RAL6018)
  2 layer galvanzid steel tape
- Outer sheath made of black polyethylene (PE)

Info
- Industrial Ethernet cable
- CAT.5-Performance

■ Technical data

Peak operating voltage
(not for power applications) 125 V

Minimum bending radius
Fixed installation: 10 x outer diameter
Flexing: 15 x outer diameter

Test voltage
Core/core: 2000 V
Core/screen: 2000 V

Temperature range
Operation: –40 °C to +70 °C
During installation: –20°C to +60°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)
Fixed installation					
2170496	ETHERLINE® Cat.5 ARM	2 x 2 x AWG22/1	9.3	30.4	124

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.

ETHERLINE® Cat.5 FRNC HYBRID
Flexible use

LAPP KABEL STUTTGART ETHERLINE® FRNC HYBRID

■ Benefits
- Industrial use
- Screened against interference

■ Application range
- Industrial Ethernet cable
- 2pair: 10/100 Mbit/s for Industrial Ethernet
- High-quality, double screening ensures high transmission reliability in areas with electromagnetic interference
- PROFINET application Type C Hybrid
- Suitable for EtherCAT and EtherNet/IP applications

■ Product features
- Flame-retardant according IEC 60332-1-2
- HYBRID: cable for data transmission + power supply
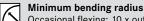- Robust, halogen-free outer sheath
- CAT.5-Performance

■ Norm references / Approvals
- UL AWM Style 21282

■ Product make-up
- Cores for Power Supply
  4 x 1.5 mm2 (AWG16)
- Data transfer: braided conductor, 7-wire, bare
- Screening: wrapped with foil and braided copper wires
- Twisting: data pairs and power supply pairs twisted together
- Overlapping plastic tape
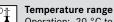- FRNC outer sheath
- Colour: green (based on RAL 6018)

Info
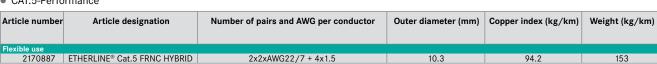- HYBRID: cable for data transmission + power supply

■ Technical data

Minimum bending radius
Occasional flexing: 10 x outer diameter
Fixed installation: 5 x outer diameter

Test voltage
See data sheet

Temperature range
Operation: –20 °C to +70 °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)
Flexible use					
2170887	ETHERLINE® Cat.5 FRNC HYBRID	2x2xAWG22/7 + 4x1.5	10.3	94.2	153

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