



ETHERLINE® T1 FLEX

Flexible use

Info

- Single Pair Ethernet
- Industrial Ethernet to the edge
- High mechanical and chemical resistance



Benefits

- Up to 100 Mbit/s with only one twisted pair
- Industrial Ethernet up to the sensor/ actuator in the field level of Automation
- Lean and flexible cable construction

Application range

- 10/100 Mbit/s for Industrial Ethernet
- One Pair Ethernet
- For flexible applications (7-wire stranded conductor)
- Industrial use

Product features

- Halogen-free according to VDE 0472-815
- Oil-resistant according to EN 60811-404
- Flammability:
IEC/EN: 60332-1-2
UL/CSA: Horizontal Flame, FT2

Norm references / Approvals

- IEEE 802.3bw: 100BASE-T1
- IEEE 802.3cg: 10BASE-T1 (Standard in development)
- UL-AWM-Style 21198 (80 °C / 300 V)

Product Make-up

- 7-wire bare stranded copper conductor
- Core insulation: Based on Polyolefin
- Screening: wrapped with braided tinned-copper wires
- Outer sheath: PUR, violet (RAL 4001)

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
Occasional flexible use:
15 x outer diameter
Fixed installation: 8 x outer diameter

Test voltage
C/C: 2000 V
C/S: 2000 V

Characteristic impedance
nom. 100 Ω

Temperature range
Fixed installation: -40 °C to +80 °C
Flexing: -30 °C to +70 °C

Article number	Article designation	Number of pairs and AWG per conductor	Core diameter in mm	Outer diameter [mm]	Weight (kg/km)
ETHERLINE® T1 FLEX					
2170924	ETHERLINE® T1 P FLEX 1x2xAWG18/7	2 x 1 x AWG18/7	2.55	8.0	61
2170921	ETHERLINE® T1 P FLEX 1x2xAWG26/7	2 x 1 x AWG26/7	1.1	4.7	25

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
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.