

## ETHERLINE® T1 FLEX

Single Pair Ethernet data cable for flexible use

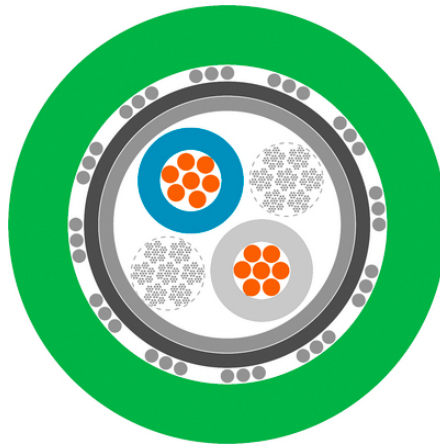
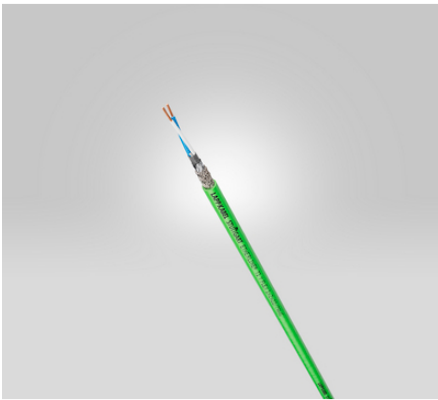
Industrial Ethernet cable with one twisted pair for Single Pair Ethernet applications

### Info

Single Pair Ethernet

Industrial Ethernet at the Edge

High mechanical and chemical resistance



Supplementary automation components from Lapp



Mechanical and plant engineering



Good chemical resistance



Flame-retardant



Low weight



Space requirement



Interference signals



UV-resistant

### Benefits

Fast information exchange through future-proof Single-Pair-Ethernet technology.

Last Update (09.12.2024)

©2024 Lapp Group - Technical changes reserved

Product Management [www.lappkabel.de](http://www.lappkabel.de)

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02\_03.16

## ETHERLINE® T1 FLEX

For transmission of analogue and digital signals in the frequency range up to 600 MHz and up to 40 m distance.

A single-pair cable design saves weight and space. Small bending radii and outer diameters are essential for the connection to the field level.

Power-over-Data-Line-capable cable according to IEEE 802.3bu for simultaneous power and data supply of SPE terminals with low energy requirements (up to 50 W).

Ideal protection against electromagnetic interference due to double shielding of aluminum-clad foil and copper braided shield with high coverage (SF/UTP).

### Application range

For structured cabling according to DIN EN 50173 and ISO/IEC 11801.

For Single-Pair-Ethernet applications 100Base-T1 according to IEEE 802.3bw and 1000Base-T1 according to IEEE 802.3bp.

Can be used in dry or damp rooms

Suitable for medium mechanical stress.

Flexible use

### Product features

See data sheet

### Norm references / Approvals

IEEE 802.3cg: 10BASE-T1

IEEE 802.3bw: 100BASE-T1

IEEE 802.3bp: 1000BASE-T1

### Product Make-up

7-wire bare stranded copper conductor

Core insulation: Based on Polyolefin

Screening: wrapping of laminated aluminium foil in combination with tinned copper braiding

### Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000830 ETIM 6.0 Class-Description: Data cable
Peak operating voltage:	(not for power applications) 125 V
Minimum bending radius:	see data sheet
Test voltage:	C/C: 2000 V C/S: 2000 V
Characteristic impedance:	nom. 100 Ω
Temperature range:	See data sheet

### Note

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](http://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.

Prices are net prices without VAT and surcharges. Sale to business customers only.



## ETHERLINE® T1 FLEX

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)
2170925	ETHERLINE® T1 FLEX Y 1x2x26/7 AWG	1x2x26/7AWG	1.05	4.6	-	30.1
2170924	ETHERLINE T1 PN FLEX Y 1x2x22/7AWG	1x2x22/7AWG	1.55	5.5	-	43.3
2170922	ETHERLINE T1 Y FLEX 1x2x22/7AWG	1x2x22/7AWG	1.6	5.8	20	42

Last Update (09.12.2024)

©2024 Lapp Group - Technical changes reserved

Product Management [www.lappkabel.de](http://www.lappkabel.de)

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02\_03\_16