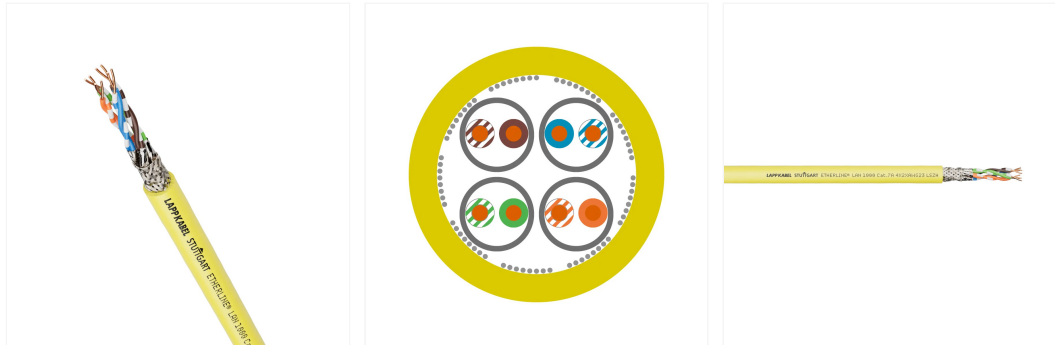


## ETHERLINE® LAN 1000 Cat.7A 4x2xAWG23 LSZH

**Article No.:** 2170971

Ethernet cable; Fixed Installation; Cat.7A; S/FTP; Halogenfree; yellow



CE



### Details

#### Benefits

- Fast information exchange through Ethernet technology.
- Cat. 7A performance up to 10 Gbit/s.
- For transmission of analog and digital signals in the frequency range up to 1000 MHz.
- Meets the transmission behavior requirements as per EIA/TIA-568 and TSB36, as well as ISO/IEC 11801/EN 50173 (link class FA).
- With halogen free LSZH outer jacket to meet special fire protection requirements.
- Ideal protection against electromagnetic interference due to pair shielding with aluminum compound foil and copper shielding braiding as overall shielding (S/FTP).
- Available as a 4-pair standard cable or as a duplex cable variant for reduced cabling effort.

#### Application

- For structured building cabling according to EN 50173 and ISO/IEC 11801.
- Especially for environments where electromagnetic compatibility (EMC) is required.
- Suitable for all LAN networks and Ethernet applications up to 10GBase-T.

#### Notes

Unless specified otherwise, the product values shown are rated values at room temperature. You can receive additional values, such as tolerances, upon request if they are available and have been released for publication.

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

The absence of PWIS raw materials does not protect against the potential risk of contamination with substances that interfere with the paint wetting during subsequent handling of the product(s) during transport, storage or further processing after delivery.

If applicable, the prices are solid metal prices without additional charges and VAT. Sales only to business customers.

### Remarks

### Technical Data

#### General information

Brand	ETHERLINE®
Product type	Ethernet cable
Copper index	161.28 lb/10000 ft
Industry segment	Construction Machinery Food & Beverage Solar

#### Electrical parameters

Nominal voltage	48 V AC rms according to IEC
Rated voltage conductor to conductor	50 V AC rms according to IEC
Maximum operating voltage (not for power transmission)	100 V
Test voltage conductor/conductor	1 kV
Supports Power over Ethernet	IEEE 802.3af (PoE) IEEE 802.3at (PoE+) IEEE 802.3bt (4PPoE)
Segregation class according to EN 50174-2	D
Loop resistance at 20°C	160 Ω/km
Nominal characteristic impedance	100 Ω
Possible data transmission rates	10000 Mbit/s
Nominal velocity of propagation	0.79 c

**Product design**

Conductor count/size	4x2x23/1AWG
Nominal cross section conductor (mm <sup>2</sup> )	0.25 mm <sup>2</sup>
Nominal cross section conductor (AWG)	23 AWG
Leading conductor cross-section	AWG
Wire count	1
Conductor material	Bare Copper
Conductor design	solid conductor
Including protective ground	No
Number of cores	8
Number of pairs	4
Type of pair shielding	Aluminum-laminated plastic foil
Stranding type	Twisted-pair
Shielded	Yes
Type of overall shielding	Tin-plated copper braiding
Abbreviation shielding	S/FTP
With armoring	No
With rodent protection	No
Nominal conductor diameter	0.051 in
Min. outer diameter	0.283 in
Nominal outer diameter	0.291 in
Max. outer diameter	0.299 in
Cable form	Round
Core insulation base material	Polyethylene
Conductor insulation basic material, short form	PE
Basic material of outer jacket	Halogen-free compound

Outer jacket color	yellow
Colour outer sheath RAL code	RAL 1003
Core identification	Colors

**Product features**

Application area	Fixed Installation
Windable	No
Minimum bending radius, stationary	4 x outer diameter
Minimum bending radius in inch, fixed installation	1.197 in
Minimum bending radius, occasionally moved	8 x outer diameter
Minimum bending radius in mm, occasionally moved	2.394 in
Temperature, fixed installation	-20 °C to 60 °C max. conductor temperature
Temperature, occasionally moved	0 °C to 50 °C max. conductor temperature
Installation temperature min.	0 °C
Max. assembly temperature	50 °C
Flame-retardant	Yes
Flame retardance according to	IEC 60332-3-24
Corrosiveness of combustion gases according to	IEC 60754-2
UV-resistant	No
Halogenfree	Yes
Halogen-free according to	IEC 60754-2
Oil resistant	No
PWIS-free	Yes
PWIS-free according to	VDMA 24364-B2-L
Ethernet cable category	Cat.7A
Fast Connect (FC) cable	No

---

**Certifications and standards**

CE marking	Yes
EAC certified	Yes
EAC certification number	EAЭC N RU Д-DE.АЮ64.В.00130/20
VDE certified	No
CPR fire class	Eca

---

**ETHERLINE® LAN 1000 Cat.7A**

Article No.	Name	Conductor count/size	Cable form	Flame retardance according to	Nominal outer diameter	Copper index
2170614	UNI LAN1000 S/FTP Cat.7LSZH 4x2xAWG23/1	4x2x23/1AWG	Round	IEC 60332-3-24,IEC 60332-1-2	0.295 in	181.4 lb/10000 ft
2170971	ETHERLINE® LAN 1000 Cat.7A 4x2xAWG23 LSZH	4x2x23/1AWG	Round	IEC 60332-3-24	0.291 in	161.28 lb/10000 ft
2170972	ETHERLINE® LAN 1000 Cat.7A 2x(4x2xAWG23)	2x(4x2x23/1AWG)	Separable Twin	IEC 60332-3-24	0.291 in	403.18 lb/10000 ft
2170981	ETHERLINE® LAN 1000 Cat.7A 2x(4x2x23AWG)	2x(4x2x23/1AWG)	Separable Twin	IEC 60332-1-2	0.283 in	403.18 lb/10000 ft

V1.1