

## ETHERLINE® TORSION Cat.7

Highly flexible application

Industrial Ethernet cable Cat.7 for torsion stress applications ( $\pm 180^\circ$ )  
4 pairs, PUR jacket with UL approval, design 4x2xAWG24/7, for PROFINET Type C

### Info

For Torsion applications ( $\pm 180^\circ$ )  
For PROFINET applications with 4 pairs  
Cat.7 qualified for 10Gbit/s



UV-resistant



Torsion-resistant



Interference signals



Robust



Mechanical resistance



Industrial machinery and plant engineering



Automation & fältinstallation



Flame-retardant

Last Update (23.05.2017)

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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® TORSION Cat.7



Torsion load

### Benefits

Many applications with Industrial Ethernet, e.g. PROFINET, i.e. fixed installation, flexible use as well as TORSION.  
4-pair: 100 Mbit/s up to 10 Gbit/s for Industrial Ethernet  
Premium screening against electromagnetic interference  
Can be used for Industrial Ethernet in harsh industrial environments

### Application range

for industrial secondary and tertiary cabling according to EN 50173-3 ISO/IEC 24702  
Wiring machines, devices, and control cabinets  
Max. cable length for 100 Mbit/s is 85 m  
Max. cable length for 10 Gbit/s is 85 m  
suitable for EtherCAT and EtherNet/IP applications

### Product features

Halogen-free according to IEC 60754-1  
Oil-resistant according to IEC 60811-2-1  
high-quality, double screening ensures high transmission reliability in areas with electromagnetic interference  
Cable suitable for high torsion stress. Tested with up to 5 million bending cycles and a right/left movement of 180° per metre.

### Norm references / approvals

electrical requirements according to IEC 61156-6  
UL/CSA-certified (CMX)  
UL AWM Style 21576  
Flame-retardant according to IEC 60332-1-2

### Design

7-wire stranded wire made of tin-plated copper wires  
Core insulation made of polyethylene (PE)  
S/FTP: Copper braid as overall shielding and pair screening with aluminium compound foil  
Outer sheath made of PUR  
Colour: green (similar to RAL 6018)

### Technical Data

Classification:	ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable
Peak operating voltage:	(not for power applications) 125 V
Minimum bending radius:	Fixed installation: 8 x outer diameter Flexing: 15 x outer diameter
Characteristic impedance:	nom. 100 ohm according to IEC 61156-6
Temperature range:	Fixed installation: -40°C to +80°C Flexing: -30°C to +70°C

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**Note**

Photographs 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.



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Article number	Number of pairs and AWG per conductor	Outer diameter [mm]	Copper index (kg/km)
2170481	4x2xAWG24/7	9.4	44

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