

ETHERLINE® FD CAT.6A

For highly flexible applications

Industrial Ethernet cable Cat.6A for highly flexible use in power chains
4 pairs
PVC or PUR outer sheath with CMX approval
design 4x2xAWG24/7

Info

CAT.6A for drag chain, qualified for 10Gbit/s
For PROFINET applications with 4 pairs



UV-resistant



Interference signals



Robust



Power chain



Mechanical resistance



Wind Energy



Industrial machinery and plant engineering



Automation & fältinstallation

Benefits

For use in power chains and moving machinery parts in dry or damp rooms
4pair: 100Mbit/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 highly flexible applications (e.g. drag chains)
Wiring of machines, tools, devices, appliances and control cabinets
max. cable length für 100 Mbit/s is 85 m
max. cable length for 10 Mbit/s is 85 m
suitable for EtherCAT and EtherNet/IP applications

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Product Management www.lappkabel.de

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

PN 0456 / 02_03.16

ETHERLINE® FD CAT.6A

Product features

PUR version is halogen-free according to IEC 60754
Oil-resistant acc. IEC 60811-2-1
CAT.6A for drag chain, qualified for 10Gbit/s
Meets the requirements according to CAT.6A, ISO/IEC 11801 and EN 50173
min. 2.5 million bending cycles in the power chain

Norm references / Approvals

electrical requirements acc. to IEC 61156-6
PUR: UL/CSA-certified (CMX)
PUR versions: UL AWM Style 21576
PVC cable is UL/CSA-certified (CM)
Flame retardant acc. to IEC 60332-1-2

Product Make-up

7-wire tinned stranded copper conductor
Core insulation: Based on Polyolefin
S/FTP: copper braid as overall screening and pair screening with aluminium compound foil
Outer sheath: PUR, halogen-free/PVC
Colour: green (based on RAL 6018)

Technical Data

Classification:	ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable
Minimum bending radius:	Flexing: 15 x outer diameter Fixed installation: 8 x cable diameter
Characteristic impedance:	100 Ohm
Temperature range:	Fixed installation PVC: -40°C to +80°C PUR: -40°C to +80°C Flexing PVC: -10°C to +70°C PUR: -30°C to +70°C

Note

Unless otherwise specified, the product values shown are nominal values. You can receive further values, such as tolerances, upon request if they are available and have been released for publication.
PROFINET® is a registered trademark of the PNO (PROFIBUS user organisation)
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.
Prices are net prices without VAT and surcharges. Sale to business customers only.

**ETHERLINE® FD CAT.6A**

Article number	Article designation	Number of pairs and AWG per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
PVC sheath					
2170485	ETHERLINE® FD CAT.6 _A	4x2xAWG24/7	9	44	88
PUR outer sheath, halogen-free					
2170484	ETHERLINE® FD P CAT.6 _A	4x2xAWG24/7	9	44	90

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