ETHERLINE® PN Flex

Flexible use

Industrial Ethernet cable Cat.5 for flexible use, for PROFINET applications type B
design 2x2xAWG22/7, PVC or FRNC sheath material
UL approval

Info
For Profinet applications
CAT.5 performance
Flexible use

UV-resistant

Interference signals

Industrial machinery and plant engineering

Automation & fältinstallation

Suitable for outdoor use

Flame-retardant

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Benefits

For PROFINET applications type B
Can be used in dry or damp rooms
Shielded against interference signals
Can be used for Industrial Ethernet in harsh industrial environments
2-pair: 10/100 Mbit/s for Industrial Ethernet

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
suitable for EtherCAT and EtherNet/IP applications
For flexible applications (7-wire braided conductor)

Product features

Flame-retardant according to CSA FT4
UL Vertical-Tray Flame Test
CAT.5 performance
FRNC version: Halogen-free and flame-retardant
Fast Connect (FC) cable design

Norm references / approvals

The cable is UL/CSA-certified (CMG)
ETHERLINE® PN Cat.5 Y FLEX FC: **ECOLAB®**
Industry standard for innovations and efficiency in the field of professional cleaning and disinfection

Design

Stranded wire, bare, 7-wire
Core insulation: Polyethylene (PE)
Star quad
Inner sheath made of PVC or FRNC
Overall shielding with copper braiding and plastic-laminated aluminium foil
PVC or FRNC outer sheath material
Colour: green (similar to RAL 6018)

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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:	FRNC cable:
	Flexing: 8 x outer diameter
	Fixed installation: 4 x outer diameter
	PVC cable:
	Flexing: 7 x outer diameter
	Fixed installation: 3 x outer diameter
Test voltage:	Core/Core: 2000 V
	Core/Shield: 2000 V
Characteristic impedance:	100 Ohm ±3 %
Temperature range:	Cable with FRNC sheath
	Fixed installation: -25°C to +80°C
	Flexing: -25°C to +80°C
	Cable with PVC sheath
	Fixed installation: -40°C to +80°C
	Flexing: -20°C to +60°C

Note

Unless otherwise specified, the product values shown are nominal values. You can receive further values, such as tolerances, upon request if they available and have been released for publication.

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging: Ring ≤ 30 kg or ≤ 250 m, otherwise drum

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.

Article number	Article designation	Number of pairs and AWG per conductor	Max. outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
PVC outer sheath					
2170886	ETHERLINE® PN Cat.5 Y FLEX FC	2 x 2 x AWG22/7	6.8	31.3	67
FRNC outer sheath					
2170890	ETHERLINE® PN Cat.5e FRNC FLEX FC	2 x 2 x AWG22/7	6.8	31.2	65