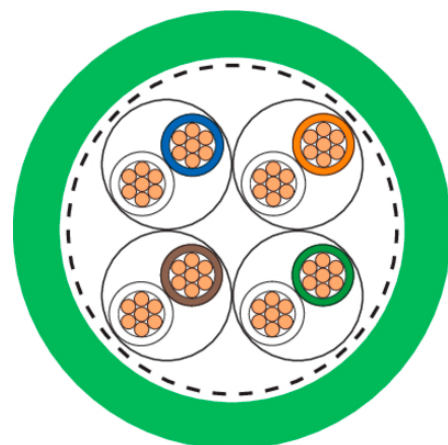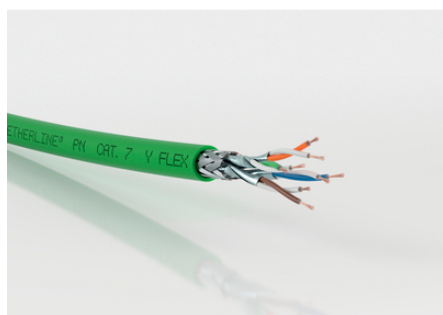# ETHERLINE® PN Cat.7 FLEX

Ethernet cable Category 7, Class F for flexible application - verified up to 600 MHz

Industrial Ethernet cable Cat.7 for flexible use
PVC or halogenfree outer sheath, design 4x2xAWG23/7

Info
Industrial Ethernet cable
For PROFINET applications with 4 pairs
Cat.7 qualified for 10Gbit/s

Supplementary automation components from Lapp

Mechanical and plant engineering

Flame-retardant

Mechanical resistance

Interference signals

UV-resistant

Benefits
Can be used in dry or damp rooms
Screened against interference
Can be used for Industrial Ethernet in harsh industrial environments
4pair: 100Mbit/s up to 10 Gbit/s for Industrial Ethernet

Application range

ETHERLINE® PN Cat.7 FLEX

for industrial secondary and tertiary cabling according to EN 50173-3
ISO/IEC 24702
Wiring of machines, tools, devices, appliances and control cabinets
suitable for EtherCAT and EtherNet/IP applications

Product features
FRNC Version: Halogene free and flame retardant
The oil-resistant PVC sheath enables usage in industrial environments
High-quality, double screening ensures high transmission reliability in areas with electromagnetic interference

Norm references / Approvals
Flame retardant acc. to IEC 60332-1-2
UL approvals see data sheet

Product Make-up
7-wire bare stranded copper conductor
Core insulation: foamed polyethylen (PE)
S/FTP: copper braid as overall screening and pair screening with aluminium compound foil
Colour: green (based on RAL 6018)

Technical Data

Classification ETIM 5:	ETIM 5.0/6.0 Class-ID: EC000830
	ETIM 5.0/6.0 Class-Description: Data cable
Peak operating voltage:	(not for power applications) 125 V
Minimum bending radius:	Fixed installation: 4 x outer diameter
	Flexing: 8 x outer diameter
Test voltage:	Core/core: 1500 V rms
	Core/screen: 1500 V eff.
Characteristic impedance:	100 Ω ± 5 Ohm (> 1 MHz)
Temperature range:	Fixed installation: -30°C to +80°C
	Occasional flexing: -5°C to +50°C

Note
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.

Article number	Article designation	Number of pairs and AWG per conductor	Core diameter in mm	Outer diameter mm	Copper index (kg/km)
2170609	ETHERLINE® PN CAT.7 FRNC FLEX A	4x2xAWG23/7	1.5	8.7	45
2170608	ETHERLINE® PN CAT.7 Y FLEX A	4x2xAWG23/7	1.5	8.7	45

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