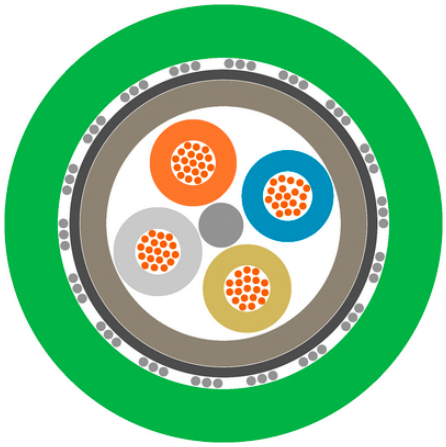
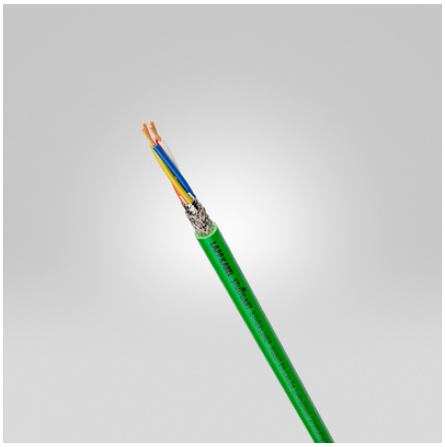
ETHERLINE® ROBOT PN

Robot applications

Industrial Ethernet cable Cat.5e for highly flexible robot applications acc. to PROFINET Type R

Info
Industrial Ethernet cable
PROFINET Type R





- Supplementary automation components from Lapp
- Mechanical and plant engineering
- Suitable for outdoor use
- Good chemical resistance
- Flame-retardant
- Halogen-free
- Mechanical resistance
- Power chain
- Robust

Last Update (25.04.2024)

Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

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Interference signals


Torsion-resistant

UV-resistant

Benefits

Can be used for Industrial Ethernet in harsh industrial environments
EMC-optimised design
Screened against interference
2pair: 10/100 Mbit/s for Industrial Ethernet
Variant 'FC' with Fast-Connect construction with inner jacket enables effortless stripping and assembly of the cable

Application range

Especially for highly flexible, continuously moving use with torsional stress in industrial robots and handling devices in the PROFINET network (Type R)
suitable for EtherCAT and EtherNet/IP applications
Can be used in dry, humid and oily environments.
PUR outer sheath withstands high mechanical loads
The PUR outer sheath is insensitive to mineral oil-based lubricants and is chemically resistant in many cases.

Product features

Flexibility for use inside power chain/cable carrier
TORSION: for torsional stress, e.g. robot application; ± 180° per 1 m
PUR outer sheath is resistant to most oils and hydraulic fluids

Norm references / Approvals

AWM certification for USA and Canada
Flame-retardant according to IEC 60332-1-2, UL FT-2 flame test
Halogen-free according to VDE 0472-815

Product Make-up

Stranded tinned copper, 19-wired
Core insulation: PE
Colour-coded in accordance with PROFINET for Cat.5e apllications
Star quad
SF/UTP: braid of tinned copper wire and plastic laminated aluminum foil as overall screening
Outer sheath made of PUR

Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000830 ETIM 6.0 Class-Description: Data cable
Peak operating voltage:	(not for power applications) 125 V
Minimum bending radius:	Fixed installation: 8 x outer diameter Flexible use: 12 x outer diameter

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Test voltage:	Core/core: 2000 V Core/screen: 2000 V
Characteristic impedance:	nom. 100 Ω acc. to IEC 61156-6
Temperature range:	Fixed installation: -40 °C to +80 °C Flexible use: -20 °C to +60 °C

Note

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
Packaging size: coil ≤ 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 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.

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Article number	Article designation	Number of pairs and AWG per conductor	Core diameter in mm	Outer diameter mm	Copper index (kg/km)	Weight (kg/km)
2170941	ETHERLINE® ROBOT PN FC Cat.5e	1 x 4 x 22/19AWG	1.55	6.8	35.6	66.4