

PRODUCT INFORMATION

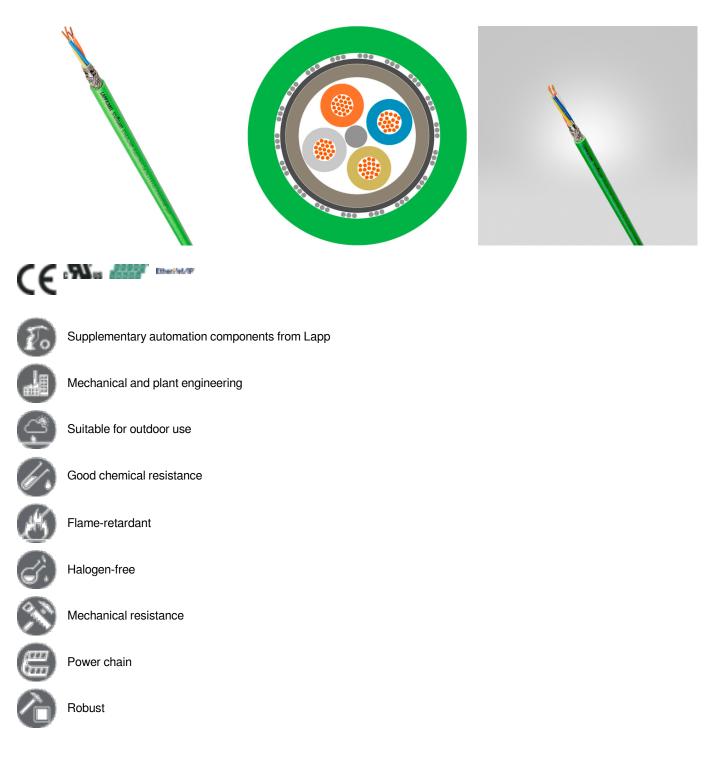
ETHERLINE® ROBOT PN

Robot applications

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

Info

Industrial Ethernet cable PROFINET Type R



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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; \pm 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:

Characteristic impedance:

Temperature range:

Core/core: 2000 V Core/screen: 2000 V

nom. 100 Ω acc. to IEC 61156-6

Fixed installation: -40 $^\circ$ C to +80 $^\circ$ C Flexible use: -20 $^\circ$ C to +60 $^\circ$ 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 \leq 30 kg or \leq 250 m, otherwise drum

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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.

ıst Up	Article number		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

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