ETHERLINE® ROBUST FR

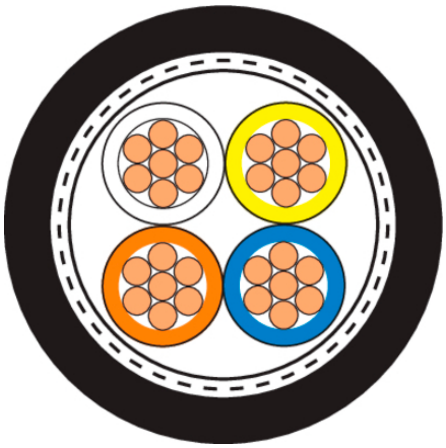
Industrial Ethernet cable for food and baverage, Cat.5e and Cat.7 PROFINET cable Type B, Profinet cable with special TPE jacket for rugh environements, flame retardant Industrial Ethernet cables

Info

For PROFINET applications
Flame-retardant







- Supplementary automation components from Lapp
- Food & Beverage
- Mechanical and plant engineering
- Suitable for outdoor use
- Good chemical resistance
- Flame-retardant
- Interference signals
- UV-resistant

Benefits

Outstanding weather, ozone and UV resistance together with the wide temperature range enable versatile use for indoor and outdoor applications
Good resistance to cold and hot water as well as water-soluble cleaning and cooling agents
Well-suited to steam cleaning

Last Update (23.02.2024)
©2024 Lapp Group - Technical changes reserved
Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

ETHERLINE® ROBUST FR

Application range

For flexible applications
(7-wire stranded conductor)
Machine tool building, medical technology, laundries, car washing equipment, chemical industry, composting plants, sewage works
Food and beverage industry, especially for production and processing equipment of milk and meat products
for industrial secondary and tertiary cabling according to EN 50173-3
ISO/IEC 24702
suitable for EtherCAT and EtherNet/IP applications

Product features

High-quality, double screening ensures high transmission reliability in areas with electromagnetic interference
Flame retardance makes it suitable for indoor and outdoor installations
2pair: 10/100 Mbit/s for Industrial Ethernet
4pair: 100Mbit/s up to 10 Gbit/s for Industrial Ethernet
Many applications with Industrial Ethernet, e.g. PROFINET type B, i.e. fixed installation and flexible use.

Norm references / Approvals

UV-resistant according to ISO 4892-2
Flame-retardant according IEC 60332-1-2
Ozone-resistant according to EN 50396

Product Make-up

7-wire bare stranded copper conductor
Core insulation: Based on Polyolefin
Screening: wrapped with braided tinned-copper wires
Outer sheath made of special TPE
Colour: black

Technical Data

Classification ETIM 5:	ETIM 5.0/6.0 Class-ID: EC000830 ETIM 5.0/6.0 Class-Description: Data cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000830 ETIM 6.0 Class-Description: Data cable
Minimum bending radius:	Flexing: 10 x outer diameter Fixed installation: 8 x outer diameter
Characteristic impedance:	nom. 100 Ω acc. to IEC 61156-6
Temperature range:	Fixed installation: -50 °C to +80 °C Flexing: -40 °C to +80 °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
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.

Last Update (23.02.2024)
©2024 Lapp Group - Technical changes reserved
Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

LAPP

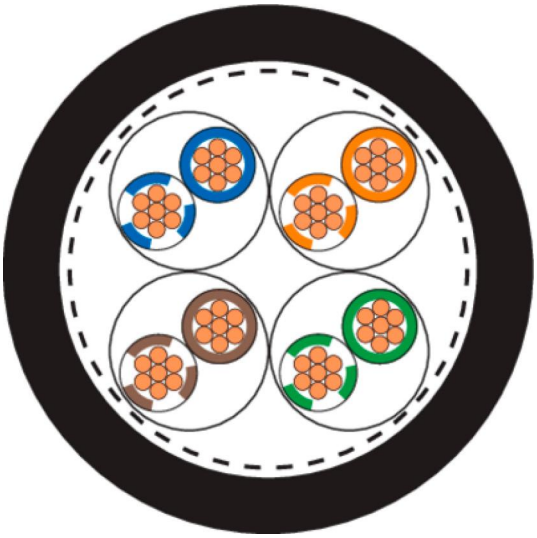
ETHERLINE® ROBUST FR

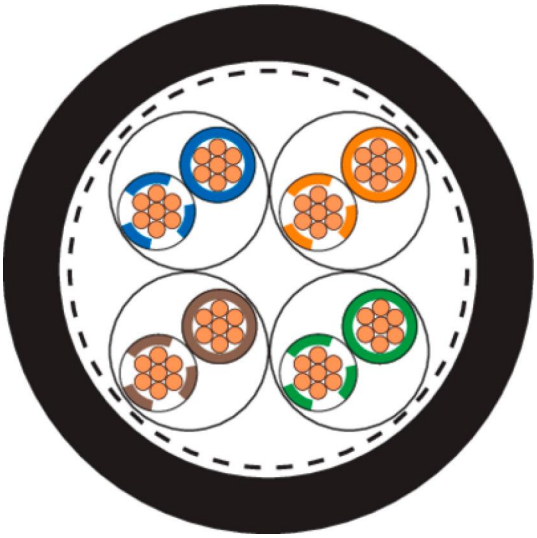
PRODUCT INFORMATION

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)
PROFINET Cat.5e						
2170454	ETHERLINE® ROBUST PN FR Cat.5	2x2xAWG22/7	1.5	6.5	30.4	55
PROFINET Cat.7						
2170455	ETHERLINE® ROBUST PN FR Cat.7	4x2xAWG23/7	1.5	8.7	48	80
Industrial Ethernet Cat.7						
2170456	ETHERLINE® ROBUST FR Cat.7 FLEX	4x2xAWG26/7	1	6.2	27	40

Last Update (23.02.2024)
©2024 Lapp Group - Technical changes reserved
Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

ETHERLINE® ROBUST FR





Last Update (23.02.2024)
©2024 Lapp Group - Technical changes reserved
Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16