

## ETHERLINE® ROBUST FR

Industrial Ethernet cable for food and beverage, Cat.5e and Cat.7 PROFINET cable Type B, Profinet cable with special TPE jacket for rough environments, 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 (25.04.2024)

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Product Management [www.lappkabel.de](http://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  $\Omega$  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](http://www.lappkabel.de/en/cable-standardlengths)

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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.

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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)
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

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