

## ETHERLINE® EC FD Cat.5e RJ45

Industrial Ethernet EC Patchcord RJ45

Industrial Ethernet Patchcord, RJ45 to RJ45, straight, PUR outer sheath, Cat.5 2-pairs

### Info

Suitable for drag chains

Additional variants are available at  
[www.lappgroup.com/assemblyfinder](http://www.lappgroup.com/assemblyfinder)  
or on request.



EtherCAT



Supplementary automation components from Lapp



Mechanical and plant engineering



Halogen-free



Mechanical resistance



Assembly time



Power chain



Interference signals

### Benefits

Connecting cable assembled on one or on both sides saves installation time and reduces or eliminates the potential for on-site assembly errors.

High resistance to electromagnetic interference thanks to star quad stranding as well as double shielding made of aluminium-laminated foil and a high degree of coverage (SF/UTP).

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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.

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## ETHERLINE® EC FD Cat.5e RJ45

Available with RJ45, M8 or M12D connectors. The slim RJ45 connector enables use in devices with a very high port density, while the integrated vibration protection of the M8/M12D connector is useful for applications with shock and vibrations. The angled shape of the connector is suitable for the space-saving cable outlet. Halogen-free core insulation and sheath compound to meet special fire protection requirements.

### Application range

Cable design enables highly flexible, constantly flexing use in moving machine parts and in the cable chain. Also suitable for EtherCAT and EtherNET/IP applications. Compliant with standards for use in buses (fire behaviour test according to UNECE-R 118 for vehicles of category M3 (II and III)). The PUR outer sheath and connectors withstand high mechanical loads. The PUR outer sheath is insensitive to mineral oil-based lubricants and is chemically resistant in many cases.

### Product features

Meets the requirements according to Cat. 5e and class D  
2pair: 10/100 Mbit/s for Industrial Ethernet

### Product Make-up

Braided conductor, 2x2x AWG26/19  
Overall screening with copper braid and plastic-laminated aluminium foil  
Outer sheath made of PUR  
Colour: green (based on RAL 6018)  
pre-assembled patchcord with RJ45 connectors

### Technical Data

|                         |  |
|-------------------------|--|
| Classification ETIM 5:  | ETIM 5.0 Class-ID: EC002599<br>ETIM 5.0 Class-Description: Patch cord copper (twisted pair) industry |
| Classification ETIM 6:  | ETIM 6.0 Class-ID: EC002599<br>ETIM 6.0 Class-Description: Patch cord copper (twisted pair) industry |
| Minimum bending radius: | Flexing: 16 x outer diameter<br>Fixed installation: 4 x outer diameter                               |
| Protection rating:      | RJ45 - IP20  |
| Temperature range:      | During installation: -30 °C to +50 °C<br>Fixed installation: -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.

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Other lengths and types of connectors are available upon request.

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             | Length (m) | Copper index kg/1.000 pieces |
|--|---------------------------------|------------|------------------------------|
| straight plug RJ45 on straight plug RJ45 |                                 |            |                              |
| 2171764                                  | IE-EC-5-RJ45-0,5-P-2-26-FD-RJ45 | 0.5        | 10                           |
| 2171765                                  | IE-EC-5-RJ45-1-P-2-26-FD-RJ45   | 1          | 20                           |
| 2171766                                  | IE-EC-5-RJ45-2-P-2-26-FD-RJ45   | 2          | 40                           |
| 2171767                                  | IE-EC-5-RJ45-3-P-2-26-FD-RJ45   | 3          | 60                           |
| 2171768                                  | IE-EC-5-RJ45-5-P-2-26-FD-RJ45   | 5          | 100                          |
| 2171769                                  | IE-EC-5-RJ45-10-P-2-26-FD-RJ45  | 10         | 200                          |
| 2171770                                  | IE-EC-5-RJ45-20-P-2-26-FD-RJ45  | 20         | 400                          |
| straight plug RJ45 on free conductor end |                                 |            |                              |
| 2171771                                  | IE-EC-5-RJ45-0,5-P-2-26-FD-OE   | 0.5        | 10                           |
| 2171772                                  | IE-EC-5-RJ45-1-P-2-26-FD-OE     | 1          | 20                           |
| 2171773                                  | IE-EC-5-RJ45-2-P-2-26-FD-OE     | 2          | 40                           |
| 2171774                                  | IE-EC-5-RJ45-3-P-2-26-FD-OE     | 3          | 60                           |
| 2171775                                  | IE-EC-5-RJ45-5-P-2-26-FD-OE     | 5          | 100                          |
| 2171776                                  | IE-EC-5-RJ45-10-P-2-26-FD-OE    | 10         | 200                          |
| 2171777                                  | IE-EC-5-RJ45-20-P-2-26-FD-OE    | 20         | 400                          |

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