# DATASHEET

## RJ45 Patch Cord Cat.5e F/UTP LSZHDraka UC300 TM11 grey 7,5m




### General data

This Cat.5e LAN cable from EFB-Elektronik supports data transfers up to 2.5Gbit. The F/UTP shielding reliably protects against interference and ensures good signal quality. Since it is a Cat.5e LAN cable, it supports a frequency range of up to 100MHz.

• Cover fire protection requirements in compliance with standards – flame-retardant cable behaviour according to IEC60332-1 reduces the spread of fire in the event of a fault and supports compliance with common installation specifications.
• Power and connect devices via a cable – reduces cabling effort because data and power are transmitted via 4PPoE to IEEE802.3bt on a single line. 4PPoE according to IEEE802.3bt can only be used up to certain cable lengths.
• Increased safety in the event of a fire – low smoke generation after IEC61034 helps to keep escape routes as low-smoke as possible in the event of a fire, and the halogen-free materials according to IEC60754-2 reduce the

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EFB-Elektronik GmbH
Striegauer Straße 1
33719 Bielefeld

fon: +49 521 40 41 8-0
fax: +49 521 40 41 8-50

info@efb-elektronik.de
www.efb-elektronik.de

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development of corrosive fire gases.

Product Description
The foil shield of this F/UTP LAN cable minimizes external interference, improves transmission stability, and supports consistent network performance. The temperature range of the cable is -20 – 60 °C. The wide range of possible applications is supported by the bending radius of >20 mm. The Ethernet cable is IP20 rated. The LSZH jacket is halogen-free and low-smoke. In the event of a fire, it minimizes smoke development and increases indoor safety.

Technical details
• Cat.5e
• Connector: RJ45 8(8) to RJ45 8(8) with TM11 connectors
• Shielding: F/UTP cable with 4x2 x AWG26/7
• Cable shape: round
• Pin assignment: 1:1 according to TIA/EIA 568B
• Equivalent to PoE class: PoE to IEEE802.3af, PoE+ to IEEE802.3at, and 4PPoE to IEEE802.3bt
• Gold-plated contacts
• Sheath: LSZH sheath material
• Outer diameter: 5.4 mm
• With an attached anti-kink grommet
• Fire protection: flame-retardant according to IEC60332-1, low-smoke according to IEC61034, halogen-free according to IEC60754-2
• Degree of protection: IP20
• With a 360° umbrella attachment
• Mating cycles: ≥750
• Brand: EFB-Elektronik

| **Technical properties** | |
|---|---|
| AWG-size | 26/7 |
| Allocation | acc. TIA/EIA 568B |
| Anti-kink sleeve | put-on |
| Area of Application | Industrial Ethernet |
| Bandwidth | 100MHz |
| Bending radius | >20 mm |
| Cable construction | 4x2 |
| Cable shape | rund |
| Cable type | F/UTP |
| Cable type acc. to Manufacturer | Draka UC300 S26 |
| Cabling standard | EN50173 |
| Category | 5e |
| Colour anti-kink sleeve | grey |
| Colour outer sheath | grey |

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| | |
|---|---|
| Conductive shield | 360° shield contact |
| Conductor Material | Copper |
| Conductor resistance DC | 130 Ω/km |
| Connector | IEC 60603-7-3 |
| Connector type | TM11 |
| Contacts | Gold plated |
| Current capacity | max. 1 A |
| Fire retardant version | acc. IEC60332-1 |
| Halogen free | acc. IEC60754-2 |
| Harmonised Standard | EN 50575 |
| Impedance | 100 ±15 Ω |
| Insulation Resistance | > 2000 MΩ |
| Length imprint | False |
| Locking lever | False |
| Loop resistance | < 260 Ω/km |
| Low smoke | acc. IEC61034 |
| Material outer sheath | LSZH |
| Mating cycles | ≥750 |
| Model | shielded |
| NVP value | 67 % |
| Oil resistant | no |
| Operating Temperature | -20 – 60 °C |
| Operating-/ tempering voltage | max. 50 V DC |
| Outer diameter of the cable | 5.4 mm |
| Ozone resistance | No |
| Pin assignment | 1:1 |
| Resistance unbalance | 3 % |
| Resistant to chemicals | False |
| Suitable for degree of protection (IP) | IP20 |
| Test voltage | 1000 (V DC, 1min) core/core und core/screen |
| Transmission | 2.5Gbit |
| Type of connector connection 1 | RJ45 8(8) |
| Type of connector connection 2 | RJ45 8(8) |
| UL approbated | False |
| UV resistant | Nein |

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**Available variants**

| ArtNr. | Bezeichnung | Length | POE class | Length tolerance |
|---|---|---|---|---|
| K8452.0,15 | RJ45 Patch Cord Cat.5e F/UTP LSZHDraka UC300 TM11 grey 0,15m | 0.15 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8452.0,25 | RJ45 Patch Cord Cat.5e F/UTP LSZHDraka UC300 TM11 grey 0,25m | 0.25 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8452.0,50 | RJ45 Patch Cord Cat.5e F/UTP LSZHDraka UC300 TM11 grey 0,5m | 0.5 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8452.1 | RJ45 Patch Cord Cat.5e F/UTP LSZHDraka UC300 TM11 grey 1m | 1.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8452.1,5 | RJ45 Patch Cord Cat.5e F/UTP LSZHDraka UC300 TM11 grey 1,5m | 1.5 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8452.10 | RJ45 Patch Cord Cat.5e F/UTP LSZHDraka UC300 TM11 grey 10m | 10.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8452.15 | RJ45 Patch Cord Cat.5e F/UTP LSZHDraka UC300 TM11 grey 15m | 15.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8452.2 | RJ45 Patch Cord Cat.5e F/UTP LSZHDraka UC300 TM11 grey 2m | 2.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8452.20 | RJ45 Patch Cord Cat.5e F/UTP LSZHDraka UC300 TM11 grey 20m | 20.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8452.25 | RJ45 Patch Cord Cat.5e F/UTP LSZHDraka UC300 TM11 grey 25m | 25.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at | ±5 % |
| K8452.3 | RJ45 Patch Cord Cat.5e F/UTP LSZHDraka UC300 TM11 grey 3m | 3.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8452.30 | RJ45 Patch Cord Cat.5e F/UTP LSZHDraka UC300 TM11 grey 30m | 30.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at | ±5 % |
| K8452.35 | RJ45 Patch Cord Cat.5e F/UTP LSZHDraka UC300 TM11 grey 35m | 35.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at | ±5 % |
| K8452.40 | RJ45 Patch Cord Cat.5e F/UTP LSZHDraka UC300 TM11 grey 40m | 40.0 m | PoE acc. to IEEE802.3af | ±5 % |
| K8452.5 | RJ45 Patch Cord Cat.5e F/UTP LSZHDraka UC300 TM11 grey 5m | 5.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8452.50 | RJ45 Patch Cord Cat.5e F/UTP LSZHDraka UC300 TM11 grey 50m | 50.0 m | No | ±5 % |
| K8452.7,5 | RJ45 Patch Cord Cat.5e F/UTP LSZHDraka UC300 TM11 grey 7,5m | 7.5 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |

**Note on Intended Use**

This data sheet is intended solely to describe the technical characteristics of the product. It does not replace an assessment of the product's suitability for a specific application. The user is responsible for ensuring that the product is used in accordance with its technical specifications and applicable legal and regulatory requirements.

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