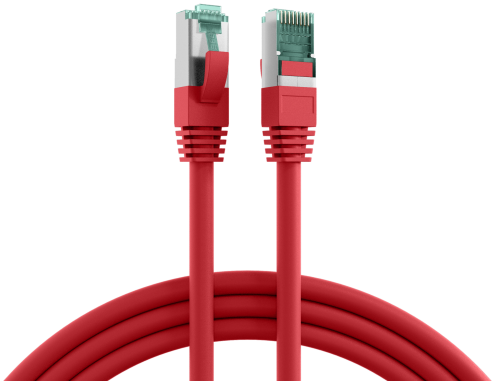
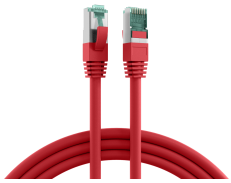
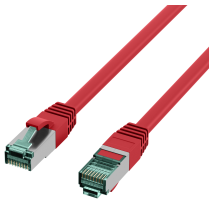
# DATASHEET

## RJ45 Patch Cord Cat.6A S/FTP LSZH red 7,5m







### General data

This Cat.6A (TIA) LAN cable from EFB-Elektronik transmits data up to 10Gbit. The S/FTP shielding reliably protects against interference and ensures high-quality signal. Because it is a Cat.6A (TIA) LAN cable, it supports a frequency range of up to 500MHz, which provides high data transmission performance.

• Increase interference immunity in electromagnetically charged environments – double shielding (S/FTP) improves EMC reserve, reduces susceptibility to radiation and stabilizes transmission in parallel cable routing.
• 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 end devices via one cable – reduces cabling effort because data and power are transmitted via 4PPoE according to IEEE802.3bt on one line (fewer power supplies/sockets, faster installation).

Product Description



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The S/FTP network cable has a double shield that effectively reduces electromagnetic interference. It can be used in a temperature range of -20 – 60 °C. The wide range of possible applications is supported by the bending radius of >30 mm. The Ethernet cable has an IP20 rating. 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.6A (TIA)
• Connector: RJ45 8(8) to RJ45 8(8) with green RJ45 connectors
• Shielding: S/FTP cable with 4x2 x AWG27/7
• 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: 6.0 mm
• With an injected 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 punctual screen contact
• With locking lever protection
• Mating cycles: ≥750
• With length print
• Brand: EFB-Elektronik

| **Technical properties** | |
|---|---|
| AWG-size | 27/7 |
| Allocation | acc. TIA/EIA 568B |
| Anti-kink sleeve | moulded-on |
| Area of Application | Industrial Ethernet |
| Bandwidth | 500MHz |
| Bending radius | >30 mm |
| Cable construction | 4x2 |
| Cable shape | rund |
| Cable type | S/FTP |
| Cabling standard | EN50173 |
| Category | 6A (TIA) |
| Colour anti-kink sleeve | red |
| Colour outer sheath | red |
| Conductive shield | Selected shield contact |
| Conductor Material | Copper |
| Conductor resistance DC | 185 Ω/km |

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| | |
|---|---|
| Connector | IEC 60603-7-51 |
| Connector type | RJ45 standard green |
| Contact Resistance | 30 mΩ |
| 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 | 10 MΩ |
| Length imprint | True |
| Locking lever | True |
| Loop resistance | 370 Ω/km |
| Low smoke | acc. IEC61034 |
| Material outer sheath | LSZH |
| Mating cycles | ≥750 |
| Model | shielded |
| NVP value | 74 % |
| Oil resistant | no |
| Operating Temperature | -20 – 60 °C |
| Operating-/ tempering voltage | max. 50 V DC |
| Outer diameter of the cable | 6.0 mm |
| Ozone resistance | No |
| Pin assignment | 1:1 |
| Printing | Cat.6A PATCH S/FTP 4x2xAWG27/7 LSZH ISO/IEC11801 ANSI/TIA-568-C.2 ***10Gigabit Ethernet*** www.efb-elektronik.de |
| Raw cable | Cat.6A |
| Resistance unbalance | < 3 % |
| Resistant to chemicals | False |
| Silicone-free | True |
| Suitable for degree of protection (IP) | IP20 |
| Test voltage | 1000 (V DC, 1min) core/core und core/screen |
| Total screening | 80 % |
| Transmission | 10Gbit |
| Type of connector connection 1 | RJ45 8(8) |
| Type of connector connection 2 | RJ45 8(8) |

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| | |
|---|---|
| UL approbated | False |
| UV resistant | no |

**Available variants**

| ArtNr. | Bezeichnung | Length | POE class | Length tolerance |
|---|---|---|---|---|
| MK6001.0,15R | RJ45 Patch Cord Cat.6A S/FTP LSZH red 0,15m | 0.15 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| MK6001.0,25R | RJ45 Patch Cord Cat.6A S/FTP LSZH red 0,25m | 0.25 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| MK6001.0,5R | RJ45 Patch Cord Cat.6A S/FTP LSZH red 0,5m | 0.5 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| MK6001.1,5R | RJ45 Patch Cord Cat.6A S/FTP LSZH red 1,5m | 1.5 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| MK6001.10R | RJ45 Patch Cord Cat.6A S/FTP LSZH red 10m | 10.0 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| MK6001.15R | RJ45 Patch Cord Cat.6A S/FTP LSZH red 15m | 15.0 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at | ±5 % |
| MK6001.1R | RJ45 Patch Cord Cat.6A S/FTP LSZH red 1m | 1.0 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| MK6001.20R | RJ45 Patch Cord Cat.6A S/FTP LSZH red 20m | 20.0 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at | ±5 % |
| MK6001.25R | RJ45 Patch Cord Cat.6A S/FTP LSZH red 25m | 25.0 m | PoE acc. to IEEE802.3af | ±5 % |
| MK6001.2R | RJ45 Patch Cord Cat.6A S/FTP LSZH red 2m | 2.0 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| MK6001.30R | RJ45 Patch Cord Cat.6A S/FTP LSZH red 30m | 30.0 m | PoE acc. to IEEE802.3af | ±5 % |
| MK6001.3R | RJ45 Patch Cord Cat.6A S/FTP LSZH red 3m | 3.0 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| MK6001.50R | RJ45 Patch Cord Cat.6A S/FTP LSZH red 50m | 50.0 m | No | ±5 % |
| MK6001.5R | RJ45 Patch Cord Cat.6A S/FTP LSZH red 5m | 5.0 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| MK6001.7,5R | RJ45 Patch Cord Cat.6A S/FTP LSZH red 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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