

# DATASHEET

## RJ45 Patch Cord Cat.6A S/FTP LSZH yellow 0,25m



### General data

The Cat.6A (TIA) patch cable from EFB-Elektronik transmits data up to 10Gbit. S/FTP shielding reliably protects against interference and ensures high-quality signals. Since it is a Cat.6A (TIA) data 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 patch cable has a double shield that effectively reduces electromagnetic interference. The temperature range of the cable is -20 – 60 °C. The wide range of possible applications is supported by the bending radius of >30 mm. The network 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 | yellow                  |
| Colour outer sheath     | yellow                  |
| 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<br>ANSI/TIA-568-C.2 ***10Gigabit Ethernet***<br><a href="http://www.efb-elektronik.de">www.efb-elektronik.de</a> |
| 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 |
|--------------|-----------------------------------------------------|------------------|---------------------------------------------------------------------------|------------------|
| MK6001.0,15Y | RJ45 Patch cable S/FTP, Cat.6A, LSZH, 0.15m, yellow | 0.15 m           | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| MK6001.0,25Y | RJ45 Patch Cord Cat.6A S/FTP LSZH yellow 0,25m      | 0.25 m           | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| MK6001.0,5Y  | RJ45 Patch Cord Cat.6A S/FTP LSZH yellow 0,5m       | 0.5 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| MK6001.1,5Y  | RJ45 Patch Cord Cat.6A S/FTP LSZH yellow 1,5m       | 1.5 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| MK6001.10Y   | RJ45 Patch Cord Cat.6A S/FTP LSZH yellow 10m        | 10.0 m           | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| MK6001.15Y   | RJ45 Patch Cord Cat.6A S/FTP LSZH yellow 15m        | 15.0 m           | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at                           | ±5 %             |
| MK6001.1Y    | RJ45 Patch Cord Cat.6A S/FTP LSZH yellow 1m         | 1.0 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| MK6001.20Y   | RJ45 Patch Cord Cat.6A S/FTP LSZH yellow 20m        | 20.0 m           | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at                           | ±5 %             |
| MK6001.25Y   | RJ45 Patch Cord Cat.6A S/FTP LSZH yellow 25m        | 25.0 m           | PoE acc. to IEEE802.3af                                                   | ±5 %             |
| MK6001.2Y    | RJ45 Patch Cord Cat.6A S/FTP LSZH yellow 2m         | 2.0 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| MK6001.30Y   | RJ45 Patch Cord Cat.6A S/FTP LSZH yellow 30m        | 30.0 m           | PoE acc. to IEEE802.3af                                                   | ±5 %             |
| MK6001.3Y    | RJ45 Patch Cord Cat.6A S/FTP LSZH yellow 3m         | 3.0 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| MK6001.50Y   | RJ45 Patch Cord Cat.6A S/FTP LSZH yellow 50m        | 50.0 m           | No                                                                        | ±5 %             |
| MK6001.5Y    | RJ45 Patch Cord Cat.6A S/FTP LSZH yellow 5m         | 5.0 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| MK6001.7,5Y  | RJ45 Patch Cord Cat.6A S/FTP LSZH yellow 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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