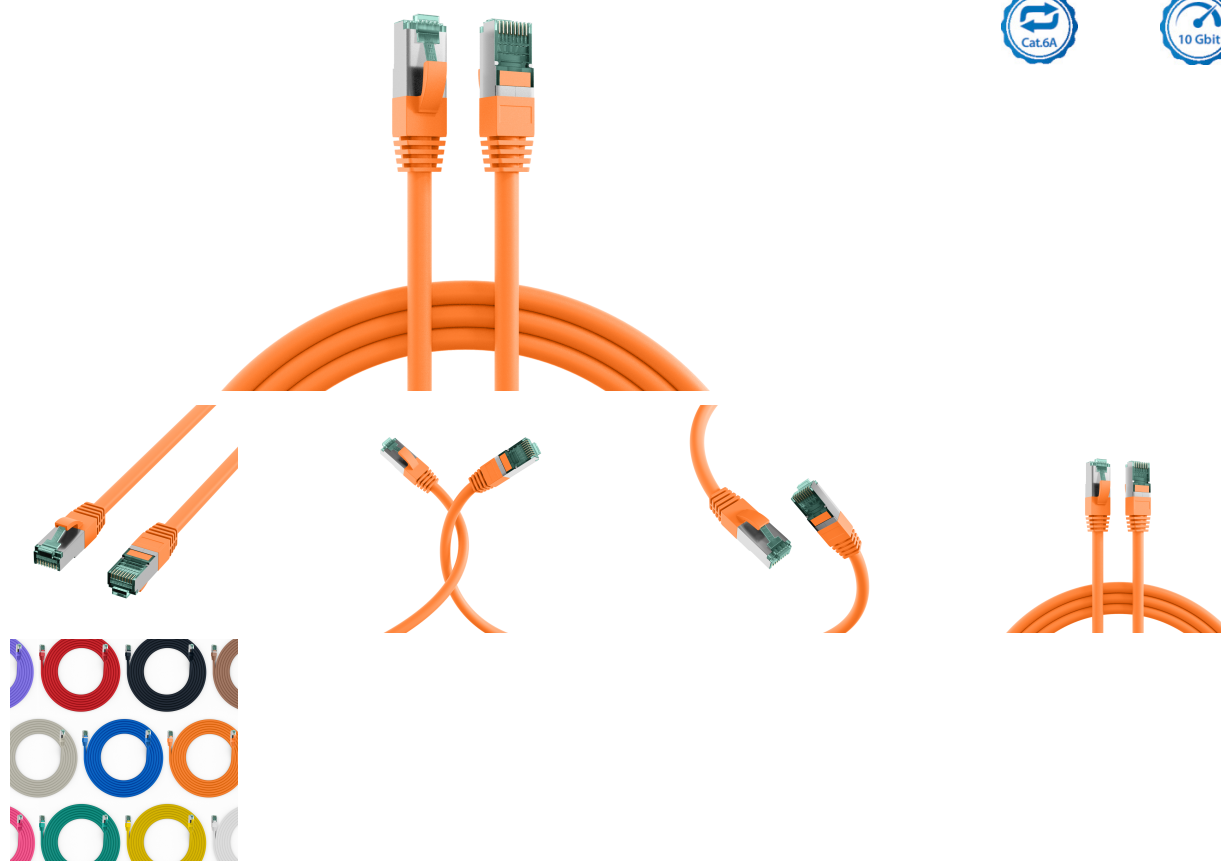


# DATASHEET

## RJ45 Patch Cord Cat.6A S/FTP LSZH orange 1m



### General data

This Cat.6A (TIA) Ethernet cable from EFB-Elektronik transmits data up to 10Gbit. S/FTP shielding reliably protects against interference and ensures good signal quality. Since it is a Cat.6A (TIA) network cable, it offers 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 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.

### Product Description

This datasheet was created automatically on 01-11-2026 . Technical changes reserved.



# DATASHEET

## RJ45 Patch Cord Cat.6A S/FTP LSZH orange 1m

The S/FTP network cable has double shielding, which 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 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.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 | orange                  |
| Colour outer sheath     | orange                  |
| Conductive shield       | Selected shield contact |
| Conductor Material      | Copper                  |
| Conductor resistance DC | 185 Ω/km                |

This datasheet was created automatically on 01-11-2026 . Technical changes reserved.



# DATASHEET

## RJ45 Patch Cord Cat.6A S/FTP LSZH orange 1m

|                                        |                                                                                                                                                                   |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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)                                                                                                                                                         |

This datasheet was created automatically on 01-11-2026 . Technical changes reserved.



# DATASHEET

## RJ45 Patch Cord Cat.6A S/FTP LSZH orange 1m

|               |       |
|---------------|-------|
| UL approbated | False |
| UV resistant  | Nein  |

### Available variants

| ArtNr.       | Bezeichnung                                    | Length POE class |                                                                           | Length tolerance |
|--------------|------------------------------------------------|------------------|---------------------------------------------------------------------------|------------------|
| MK6001.0,150 | RJ45 Patch Cord Cat.6A S/FTP LSZH orange 0,15m | 0.15 m           | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| MK6001.0,250 | RJ45 Patch Cord Cat.6A S/FTP LSZH orange 0,25m | 0.25 m           | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| MK6001.0,50  | RJ45 Patch Cord Cat.6A S/FTP LSZH orange 0,5m  | 0.5 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| MK6001.1,50  | RJ45 Patch Cord Cat.6A S/FTP LSZH orange 1,5m  | 1.5 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| MK6001.100   | RJ45 Patch Cord Cat.6A S/FTP LSZH orange 10m   | 10.0 m           | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| MK6001.150   | RJ45 Patch Cord Cat.6A S/FTP LSZH orange 15m   | 15.0 m           | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at                           | ±5 %             |
| MK6001.10    | RJ45 Patch Cord Cat.6A S/FTP LSZH orange 1m    | 1.0 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| MK6001.200   | RJ45 Patch Cord Cat.6A S/FTP LSZH orange 20m   | 20.0 m           | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at                           | ±5 %             |
| MK6001.250   | RJ45 Patch Cord Cat.6A S/FTP LSZH orange 25m   | 25.0 m           | PoE acc. to IEEE802.3af                                                   | ±5 %             |
| MK6001.20    | RJ45 Patch Cord Cat.6A S/FTP LSZH orange 2m    | 2.0 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| MK6001.300   | RJ45 Patch Cord Cat.6A S/FTP LSZH orange 30m   | 30.0 m           | PoE acc. to IEEE802.3af                                                   | ±5 %             |
| MK6001.30    | RJ45 Patch Cord Cat.6A S/FTP LSZH orange 3m    | 3.0 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| MK6001.500   | RJ45 Patch Cord Cat.6A S/FTP LSZH orange 50m   | 50.0 m           | No                                                                        | ±5 %             |
| MK6001.50    | RJ45 Patch Cord Cat.6A S/FTP LSZH orange 5m    | 5.0 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| MK6001.7,50  | RJ45 Patch Cord Cat.6A S/FTP LSZH orange 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.

This datasheet was created automatically on 01-11-2026 . Technical changes reserved.

