

# DATASHEET

## RJ45 Extension Cat.6A S/FTP LSZH AWG26 black 1m



### General data

The Cat.6A (TIA) patch cord extension of the EFB-Elektronik brand supports data transmissions up to 10Gbit. S/FTP shielding reliably protects against interference and ensures good signal quality. Since it is a Cat.6A (TIA) network cable extension, it supports a frequency range of up to 500MHz, which enables 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.
- Increased safety in the event of a fire according to IEC60754-2 - halogen-free materials reduce corrosive fire gases, which means that people, technology and building structures are better protected.

### Product Description

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The S/FTP patch cord extension 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 >25 mm. The LAN cable extension 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 RJ45 connectors
- Shielding: S/FTP 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: 6.2 mm
- With an injected anti-kink grommet
- Fire protection: flame-retardant according to IEC60332-1, 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                | 26/7                    |
| Allocation              | acc. TIA/EIA 568B       |
| Anti-kink sleeve        | moulded-on              |
| Area of Application     | Industrial Ethernet     |
| Bandwidth               | 500MHz                  |
| Bending radius          | >25 mm                  |
| Cable construction      | 4x2                     |
| Cable shape             | rund                    |
| Cable type              | S/FTP                   |
| Cabling standard        | EN50173                 |
| Category                | 6A (TIA)                |
| Colour anti-kink sleeve | black                   |
| Colour outer sheath     | black                   |
| Conductive shield       | Selected shield contact |
| Conductor Material      | Copper                  |
| Connector               | IEC 60603-7-51          |
| Connector type          | RJ45 standard           |

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|                                        |                                                                                                                              |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                          |
| Insulation Resistance                  | 10 MΩ                                                                                                                        |
| Length imprint                         | True                                                                                                                         |
| Locking lever                          | True                                                                                                                         |
| Material outer sheath                  | LSZH                                                                                                                         |
| Mating cycles                          | ≥750                                                                                                                         |
| Model                                  | shielded                                                                                                                     |
| Oil resistant                          | no                                                                                                                           |
| Operating Temperature                  | -20 – 60 °C                                                                                                                  |
| Operating-/ tempering voltage          | max. 50 V DC                                                                                                                 |
| Outer diameter of the cable            | 6.2 mm                                                                                                                       |
| Ozone resistance                       | No                                                                                                                           |
| Pin assignment                         | 1:1                                                                                                                          |
| Printing                               | Cat.6A 500MHZ S/FTP 4X2XAWG26/7 LSZH ISO/IEC11801 ANSI/TIA-568-C.2 verified *10Gigabit Ethernet*<br>www.efb-elektronik.de CE |
| Resistant to chemicals                 | False                                                                                                                        |
| Suitable for degree of protection (IP) | IP20                                                                                                                         |
| Test voltage                           | 1000 (V DC, 1min) core/core und core/screen                                                                                  |
| Transmission                           | 10Gbit                                                                                                                       |
| Type of connector connection 1         | RJ45 8(8)                                                                                                                    |
| Type of connector connection 2         | RJ45 8(8)                                                                                                                    |
| UL approbated                          | False                                                                                                                        |
| UV resistant                           | no                                                                                                                           |

### Available variants

| ArtNr.     | Bezeichnung                                      | Length POE class |                                                                            | Length tolerance |
|------------|--------------------------------------------------|------------------|----------------------------------------------------------------------------|------------------|
| K5546SW.1  | RJ45 Extension Cat.6A S/FTP LSZH AWG26 black 1m  | 1.0 m            | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K5546SW.10 | RJ45 Extension Cat.6A S/FTP LSZH AWG26 black 10m | 10.0 m           | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |

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## RJ45 Extension Cat.6A S/FTP LSZH AWG26 black 1m

|           |                                                 |       |                                                                            |      |
|-----------|-------------------------------------------------|-------|----------------------------------------------------------------------------|------|
| K5546SW.3 | RJ45 Extension Cat.6A S/FTP LSZH AWG26 black 3m | 3.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K5546SW.5 | RJ45 Extension Cat.6A S/FTP LSZH AWG26 black 5m | 5.0 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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