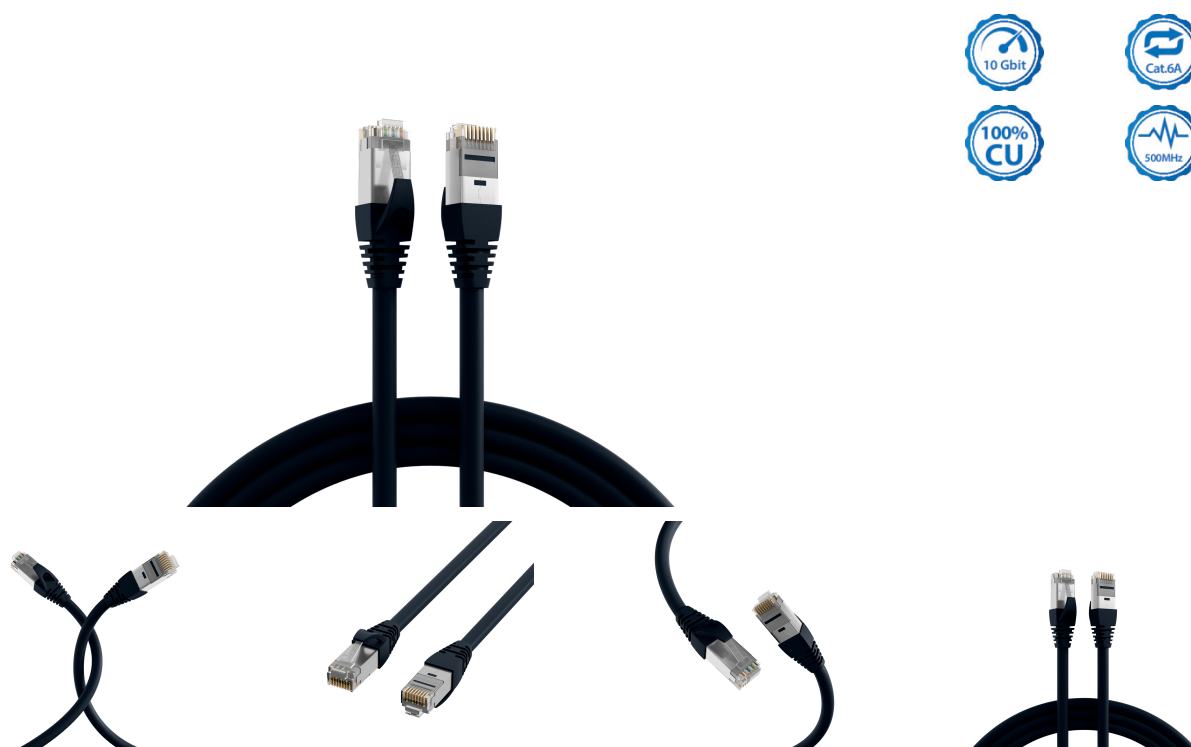


# DATASHEET

## RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 2m



### General data

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

- Designed for sun-exposed installations – UV-resistant jacket materials reduce material ageing caused by sun exposure and increase service life when used in bright/sunny areas (e.g. near windows or in sheltered outdoor areas).
- 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.

### Product Description

The S/FTP data cable has a double shield that effectively minimizes electromagnetic interference. It can be used in an extended temperature range of -40 – 80 °C. The wide range of possible applications is supported by the bending radius of >31 mm. The Ethernet cable is IP20 rated. The TPE/LSZH jacket is flexible, halogen-free and low-smoke, making it ideal for safe and professional patch and server cabinet installations.

### Technical details

- Cat.6A (TIA)

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## RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 2m

- 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: TPE/LSZH sheath material
- Outer diameter: 6.2 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 360° umbrella attachment
- With locking lever protection
- Mating cycles:  $\geq 750$
- 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                          | >31 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                       | 360° shield contact |
| Conductor Material                      | Copper              |
| Conductor resistance DC                 | 142 $\Omega$ /km    |
| Connector                               | IEC 60603-7-51      |
| Connector type                          | RJ45 standard       |
| Contact Resistance                      | < 20 m $\Omega$     |
| Contacts                                | Gold plated         |
| Current capacity                        | max. 1 A            |
| Dielectric strength acc. to IEC 60664-1 | 6 kV                |
| Fire retardant version                  | acc. IEC60332-1     |

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## RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 2m

|                                        |                                                                                                   |
|----------------------------------------|---------------------------------------------------------------------------------------------------|
| Halogen free                           | acc. IEC60754-2                                                                                   |
| Harmonised Standard                    | EN 50575                                                                                          |
| Impedance                              | 100 $\pm$ 15 $\Omega$                                                                             |
| Insulation Resistance                  | 100 M $\Omega$                                                                                    |
| Length imprint                         | False                                                                                             |
| Locking lever                          | True                                                                                              |
| Loop resistance                        | 284 $\Omega$ /km                                                                                  |
| Low smoke                              | acc. IEC61034                                                                                     |
| Material outer sheath                  | TPE/LSZH                                                                                          |
| Mating cycles                          | $\geq$ 750                                                                                        |
| Model                                  | shielded                                                                                          |
| Oil resistant                          | no                                                                                                |
| Operating Temperature                  | -40 – 80 °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 Patchcord SUPERFLEX S/FTP <a href="http://www.efb-elektronik.de">www.efb-elektronik.de</a> |
| 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                           | True                                                                                              |

### Available variants

| ArtNr.     | Bezeichnung                                     | Length POE class |                                                                            | Length tolerance |
|------------|-------------------------------------------------|------------------|----------------------------------------------------------------------------|------------------|
| K5538SW.1  | RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 1m  | 1.0 m            | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | $\pm$ 5 %        |
| K5538SW.10 | RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 10m | 10.0 m           | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | $\pm$ 5 %        |
| K5538SW.15 | RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 15m | 15.0 m           | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | $\pm$ 5 %        |
| K5538SW.2  | RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 2m  | 2.0 m            | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | $\pm$ 5 %        |

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## RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 2m

|             |                                                  |        |                                                                            |      |
|-------------|--------------------------------------------------|--------|----------------------------------------------------------------------------|------|
| K5538SW.20  | RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 20m  | 20.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K5538SW.3   | RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 3m   | 3.0 m  | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K5538SW.30  | RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 30m  | 30.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at                           | ±5 % |
| K5538SW.5   | RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 5m   | 5.0 m  | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at                           | ±5 % |
| K5538SW.7,5 | RJ45 Patch Cord Cat.6A S/FTP TPE, 6KV black 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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