# DATASHEET

## RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 1,5m




### General data

This Cat.6A (TIA) data cable from EFB-Elektronik transmits data up to 10Gbit. The S/FTP shielding reliably protects against interference and ensures good signal quality. Since it is a Cat.6A (TIA) Ethernet cable, it offers 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.
• 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
The S/FTP LAN 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 >25 mm. The data cable is IP20 rated. The polyurethane (PUR) jacket is particularly robust, making it suitable for demanding industrial applications.

Technical details

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

EFB-Elektronik GmbH
Striegauer Straße 1
33719 Bielefeld

fon: +49 521 40 41 8-0
fax: +49 521 40 41 8-50

info@efb-elektronik.de
www.efb-elektronik.de

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WE CARE FOR CONNECTION

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- Cat.6A (TIA)
- Connector: RJ45 8(8) to RJ45 8(8) with yellow TM31 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: Polyurethane (PUR) sheath material
- Outer diameter: 6.4 mm
- With an attached anti-kink grommet
- Degree of protection: IP20
- With a 360° umbrella attachment
- With locking lever protection
- Mating cycles: ≥750
- Brand: EFB-Elektronik

| **Technical properties** | |
|---|---|
| AWG-size | 26/7 |
| Allocation | acc. TIA/EIA 568B |
| Anti-kink sleeve | put-on |
| Area of Application | Industrial Ethernet |
| Bandwidth | 500MHz |
| Bending radius | >25 mm |
| Cable construction | 4x2 |
| Cable shape | rund |
| Cable type | S/FTP |
| Cable type acc. to Manufacturer | Draka Patch Pro flex Cat 7 |
| 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 | 125 Ω/km |
| Connector | IEC 60603-7-51 |
| Connector type | TM31 yellow |
| Contact Resistance | < 20 mΩ |
| Contacts | Gold plated |
| Current capacity | max. 1 A |

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| | |
|---|---|
| Fire retardant version | no |
| Halogen free | False |
| Harmonised Standard | EN 50575 |
| Impedance | 100 ±5 Ω |
| Insulation Resistance | 500 MΩ |
| Length imprint | False |
| Locking lever | True |
| Loop resistance | 250 Ω/km |
| Material outer sheath | Polyurethan (PUR) |
| Mating cycles | ≥750 |
| Model | shielded |
| NVP value | 75 % |
| Oil resistant | no |
| Operating Temperature | -20 – 60 °C |
| Operating-/ tempering voltage | max. 50 V DC |
| Outer diameter of the cable | 6.4 mm |
| Ozone resistance | No |
| Pin assignment | 1:1 |
| Printing | Cat.6A PREMIUM Patchcord U/UTP 4x2xAWG24/7 ISO/IEC11801 TIA/EIA-568-C.2 ***10Gigabit Ethernet*** |
| Raw cable | Cat.7 |
| Resistance unbalance | 2 % |
| 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 |
|---|---|---|---|---|
| K3130.0,5 | RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 0,5m | 0.5 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |

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| | | | | |
|---|---|---|---|---|
| K3130.1 | RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 1m | 1.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K3130.1,5 | RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 1,5m | 1.5 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K3130.10 | RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 10m | 10.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K3130.15 | RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 15m | 15.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K3130.2 | RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 2m | 2.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K3130.20 | RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 20m | 20.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K3130.25 | RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 25m | 25.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K3130.3 | RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 3m | 3.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K3130.30 | RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 30m | 30.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at | ±5 % |
| K3130.5 | RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 5m | 5.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K3130.50 | RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 50m | 50.0 m | No | ±5 % |
| K3130.7,5 | RJ45 Patch Cord Cat.6A S/FTP PUR Cat.7 raw cable TM31 black 7,5m | 7.5 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at | ±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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