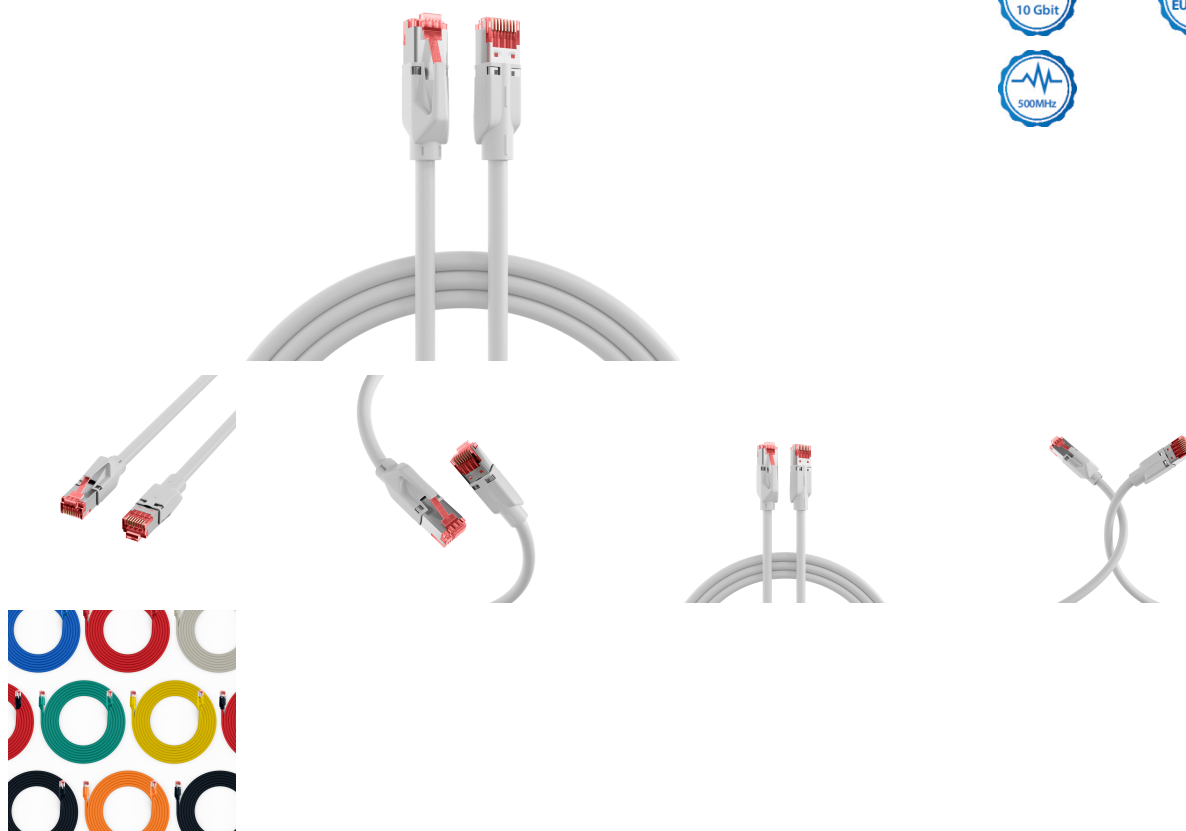


# DATASHEET

## RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 white 2m



### General data

This Cat.6A (TIA) patch cord from EFB-Elektronik brand supports 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.

- 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).

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## RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 white 2m

### Product Description

The S/FTP Ethernet cable has double shielding, which effectively minimizes 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 Ethernet 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 red TM21 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: 5.9 mm
- With an attached 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: ≥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               |
| Cabling standard        | EN50173             |
| Category                | 6A (TIA)            |
| Colour anti-kink sleeve | white               |
| Colour outer sheath     | white               |
| Conductive shield       | 360° shield contact |
| Conductor Material      | Copper              |

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## RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 white 2m

|                                        |                                             |
|----------------------------------------|---------------------------------------------|
| Conductor resistance DC                | 170 Ω/km                                    |
| Connector                              | IEC 60603-7-51                              |
| Connector type                         | TM21 red                                    |
| Contacts                               | Gold plated                                 |
| Current capacity                       | max. 1 A                                    |
| Euro class                             | Eca                                         |
| Fire retardant version                 | acc. IEC60332-1                             |
| Halogen free                           | acc. IEC60754-2                             |
| Harmonised Standard                    | EN 50575                                    |
| Impedance                              | 100 ±25 Ω                                   |
| Insulation Resistance                  | > 2000 MΩ                                   |
| Length imprint                         | False                                       |
| Locking lever                          | True                                        |
| Loop resistance                        | < 340 Ω/km                                  |
| Low smoke                              | acc. IEC61034                               |
| Material outer sheath                  | LSZH                                        |
| Mating cycles                          | ≥750                                        |
| Model                                  | shielded                                    |
| NVP value                              | 79 %                                        |
| Oil resistant                          | no                                          |
| Operating Temperature                  | -20 - 60 °C                                 |
| Operating-/ tempering voltage          | max. 50 V DC                                |
| Outer diameter of the cable            | 5.9 mm                                      |
| Ozone resistance                       | No                                          |
| Pin assignment                         | 1:1                                         |
| Raw cable                              | Cat.7                                       |
| Resistance unbalance                   | 3 %                                         |
| Resistant to chemicals                 | False                                       |
| Suitable for degree of protection (IP) | IP20                                        |
| Test voltage                           | 1000 (V DC, 1min) core/core und core/screen |
| Total screening                        | ca. 45 %                                    |
| Transmission                           | 10Gbit                                      |
| Type of connector connection 1         | RJ45 8(8)                                   |
| Type of connector connection 2         | RJ45 8(8)                                   |
| UL approbated                          | False                                       |
| UV resistant                           | no                                          |

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# DATASHEET

## RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 white 2m

### Available variants

| ArtNr.     | Bezeichnung                                                    | Length POE class |                                                                           | Length tolerance |
|------------|----------------------------------------------------------------|------------------|---------------------------------------------------------------------------|------------------|
| K8058.0,25 | RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 white 0,25m | 0.25 m           | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K8058.0,50 | RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 white 0,5m  | 0.5 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K8058.1    | RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 white 1m    | 1.0 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K8058.1,5  | RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 white 1,5m  | 1.5 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K8058.10   | RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 white 10m   | 10.0 m           | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K8058.15   | RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 white 15m   | 15.0 m           | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at                           | ±5 %             |
| K8058.2    | RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 white 2m    | 2.0 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K8058.20   | RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 white 20m   | 20.0 m           | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at                           | ±5 %             |
| K8058.25   | RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 white 25m   | 25.0 m           | PoE acc. to IEEE802.3af                                                   | ±5 %             |
| K8058.3    | RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 white 3m    | 3.0 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K8058.30   | RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 white 30m   | 30.0 m           | PoE acc. to IEEE802.3af                                                   | ±5 %             |
| K8058.5    | RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 white 5m    | 5.0 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K8058.50   | RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 white 50m   | 50.0 m           | No                                                                        | ±5 %             |
| K8058.7,5  | RJ45 Patch Cord Cat.6A S/FTP LSZH Draka UC900 TM21 white 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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