# DATASHEET

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




### General data

This Cat.6A (IEC) data cable from EFB-Elektronik supports data transmissions up to 10Gbit. S/FTP shielding reliably protects against interference and ensures high-quality signals. Because it is a Cat.6A (IEC) 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 patch cable has double shielding, which effectively reduces electromagnetic interference. The temperature range of the cable is -30 – 75 °C. The wide range of possible applications is supported by the bending radius of >25 mm. The Ethernet cable has an IP20 rating. The polyurethane (PUR) jacket is particularly robust, making it suitable for demanding industrial applications. It is also oil-resistant.

**This datasheet was created automatically on 30-10-2026 . Technical changes reserved.**

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Technical details
• Cat.6A (IEC)
• 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: Polyurethane (PUR) sheath material
• Oil-resistant according to EN 60811-2-1
• Ozone resistant according to EN60811-2-1
• 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 |
| Cable type acc. to Manufacturer | Draka UC900 SS27 Cat.7 PUR |
| Cabling standard | EN50173 |
| Category | 6A (IEC) |
| Colour anti-kink sleeve | black |
| Colour outer sheath | red |
| Conductive shield | 360° shield contact |
| Conductor Material | Copper |
| Conductor resistance DC | 170 Ω/km |
| Connector | IEC 60603-7-51 |



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| | |
|---|---|
| Connector type | TM21 red |
| Contact Resistance | < 20 mΩ |
| 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 ±5 Ω |
| Insulation Resistance | > 2000 MΩ |
| Length imprint | False |
| Locking lever | True |
| Loop resistance | < 340 Ω/km |
| Low smoke | acc. IEC61034 |
| Material outer sheath | Polyurethan (PUR) |
| Mating cycles | ≥750 |
| Model | shielded |
| NVP value | 79 % |
| Oil resistant | acc. EN 60811-2-1 |
| Operating Temperature | -30 – 75 °C |
| Operating-/ tempering voltage | max. 50 V DC |
| Outer diameter of the cable | 5.9 mm |
| Ozone resistance | acc. EN60811-2-1 |
| 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 |
| Transmission | 10Gbit |
| Type of connector connection 1 | RJ45 8(8) |
| Type of connector connection 2 | RJ45 8(8) |
| UL approbated | False |
| UV resistant | True |

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**Available variants**

| ArtNr. | Bezeichnung | Length | POE class | Length tolerance |
|---|---|---|---|---|
| K8048PUI0,25 | RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 0,25m | 0.25 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8048PUI0,5 | RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 0,5m | 0.5 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8048PUI1 | RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 1m | 1.0 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8048PUI1,5 | RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 1,5m | 1.5 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8048PUI10 | RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 10m | 10.0 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8048PUI15 | RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 15m | 15.0 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at | ±5 % |
| K8048PUI2 | RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 2m | 2.0 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8048PUI20 | RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 20m | 20.0 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at | ±5 % |
| K8048PUI25 | RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 25m | 25.0 m | PoE acc. to IEEE802.3af | ±5 % |
| K8048PUI3 | RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 3m | 3.0 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8048PUI30 | RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 30m | 30.0 m | PoE acc. to IEEE802.3af | ±5 % |
| K8048PUI40 | RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 40m | 40.0 m | No | ±5 % |
| K8048PUI5 | RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 5m | 5.0 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8048PUI50 | RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 50m | 50.0 m | No | ±5 % |
| K8048PUI7,5 | RJ45 Patch Cord Cat.6A S/FTP PUR Draka UC900 TM21 red 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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