# DATASHEET

## RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex black 7.5m



### General data

**High-performance network connections with a flexible, halogen-free TPE jacket**

The EFB-Elektronik Cat.6A (TIA) U/UTP patch cable enables data transmission speeds of up to **10 Gbps** and supports a frequency range of up to **500 MHz**. This makes it ideal for high-performance Ethernet connections in IT and home network applications.

The **halogen-free TPE jacket** combines low-smoke, halogen-free properties with **greater flexibility** compared to conventional jacket materials. The unshielded U/UTP design allows for simple, cost-effective networking in low-interference environments. Pure copper conductors, gold-plated contacts, and a 1:1 pin assignment (TIA/EIA 568B) ensure reliable signal transmission.

**This datasheet was created automatically on 13-11-2026 . Technical changes reserved.**

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**Your benefits at a glance**

**10 Gbps at up to 500 MHz** – high transmission performance for modern Ethernet networks up to Cat.6A (TIA).

**Flexible TPE jacket** – makes installation and handling easier while offering halogen-free and low-smoke material properties.

**Up to 4PPoE (IEEE 802.3bt)** – supports powering compatible network devices via the data cable, making it suitable for PoE applications.

**Product Highlights**

Cat.6A (TIA) for data transmission up to 10 Gbps

Frequency range up to 500 MHz

U/UTP design with 4x2 x AWG24/7

RJ45 8(8) to RJ45 8(8) with blue RJ45 connectors

1:1 pin assignment according to TIA/EIA 568B

PoE (IEEE 802.3af), PoE+ (IEEE 802.3at), and up to 4PPoE (IEEE 802.3bt)

Halogen-free, low-smoke TPE jacket

Flame-retardant (IEC 60332-1), low-smoke (IEC 61034), and halogen-free (IEC 60754-2)

Pure copper conductors and gold-plated contacts

Molded strain relief and latch protection

Outer diameter 6.0 mm, bending radius >30 mm

IP20 rating and ≥750 mating cycles

**Ideal for**

Ethernet connections in IT and home networks

10-Gigabit Ethernet applications



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Patch connections in low-interference network environments

PoE, PoE+, and 4PPoE applications

Applications requiring a flexible and halogen-free patch cable.

| **Technical properties** | |
|---|---|
| AWG-size | 24/7 |
| Allocation | acc. TIA/EIA 568B |
| Anti-kink sleeve | moulded-on |
| Area of Application | Industrial Ethernet |
| Bandwidth | 500MHz |
| Bending radius | >30 mm |
| Cable construction | 4x2 |
| Cable shape | rund |
| Cable type | U/UTP |
| Cabling standard | EN50173 |
| Category | 6A (TIA) |
| Colour anti-kink sleeve | black |
| Colour outer sheath | black |
| Conductive shield | No |
| Conductor Material | Copper |
| Connector | IEC 60603-7-41 |
| Connector type | RJ45 standard blue |
| Contacts | Gold plated |
| Current capacity | max. 1 A |
| Fire retardant version | acc. IEC60332-1 |
| Halogen free | acc. IEC60754-2 |
| Impedance | 100 |
| Length imprint | True |
| Locking lever | True |
| Low smoke | acc. IEC61034 |
| Material outer sheath | TPE/LSZH |
| Mating cycles | ≥750 |
| Model | unshielded |
| Oil resistant | no |
| Operating Temperature | -20 – 60 °C |

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| | |
|---|---|
| Operating-/ tempering voltage | max. 50 V DC |
| Outer diameter of the cable | 6.0 mm |
| Ozone resistance | No |
| Pin assignment | 1:1 |
| Printing | Cat.6A U/UTP 4x2xAWG24/7 TPE ISO/IEC 11801 & EN50173-1 ANSI/TIA-568-C.2 *10Gigabit Ethernet* www.efb-elektronik.de |
| 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 | True |

**Available variants**

| ArtNr. | Bezeichnung | Length | POE class | Length tolerance |
|---|---|---|---|---|
| K8119SW.0,25 | RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex black 0.25m | 0.25 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8119SW.0,5 | RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex black 0.5m | 0.5 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8119SW.1 | RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex black 1m | 1.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8119SW.1,5 | RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex black 1.5m | 1.5 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8119SW.10 | RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex black 10m | 10.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8119SW.15 | RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex black 15m | 15.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8119SW.2 | RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex black 2m | 2.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8119SW.3 | RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex black 3m | 3.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8119SW.5 | RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex black 5m | 5.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8119SW.7,5 | RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex 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**

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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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