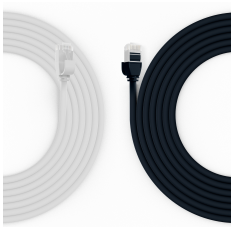
# DATASHEET

## RJ45 Patch Cord Cat.6A U/UTP TPE3,6mm ultraflex black 0,5m



### General data

This Cat.6A (TIA) Ethernet cable from EFB-Elektronik transmits data up to 10Gbit. Since it is a Cat.6A (TIA) data cable, it supports a frequency range of up to 500MHz, which provides high data transmission performance.

• Slim cable – the extra-thin cable construction with an outer diameter of 3.6 mm makes the patch cable particularly suitable for areas with limited space or hard-to-reach areas.
• 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 PoE+ to IEEE802.3at on one line (fewer power adapters/sockets, faster installation).

**This datasheet was created automatically on 25-10-2026 . Technical changes reserved.**

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Product Description
The unshielded design in this U/UTP Ethernet cable enables cost-effective networking in low-interference environments while providing high flexibility for easy installation. The temperature range of the cable is -20 – 60 °C. The wide range of possible applications is supported by the bending radius of >15 mm. The patch cable has an IP20 rating. 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)
• Connector: RJ45 8(8) to RJ45 8(8) with extra-short RJ45 connectors
• Shielding: U/UTP cable with 4x2 x AWG30/7
• Cable shape: slim
• Pin assignment: 1:1 according to TIA/EIA 568B
• Corresponds to PoE class: PoE according to IEEE802.3af and PoE+ according to IEEE802.3at
• Gold-plated contacts
• Sheath: TPE/LSZH sheath material
• Outer diameter: 3.6 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 locking lever protection
• Mating cycles: ≥750
• Brand: EFB-Elektronik

| **Technical properties** | |
|---|---|
| AWG-size | 30/7 |
| Allocation | acc. TIA/EIA 568B |
| Anti-kink sleeve | moulded-on |
| Area of Application | Industrial Ethernet |
| Bandwidth | 500MHz |
| Bending radius | >15 mm |
| Cable construction | 4x2 |
| Cable shape | slim |
| 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 |

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| | |
|---|---|
| Conductor resistance DC | 376 Ω/km |
| Connector | IEC 60603-7-41 |
| Connector type | RJ45 short version |
| Contact Resistance | 20 mΩ |
| Contacts | Gold plated |
| Current capacity | max. 1 A |
| Fire retardant version | acc. IEC60332-1 |
| Halogen free | acc. IEC60754-2 |
| Harmonised Standard | EN 50575 |
| Impedance | 100 ±15 Ω |
| Insulation Resistance | 100 MΩ |
| Length imprint | False |
| Locking lever | True |
| Loop resistance | 752 Ω/km |
| Low smoke | acc. IEC61034 |
| Material outer sheath | TPE/LSZH |
| Mating cycles | ≥750 |
| Model | unshielded |
| NVP value | 76 % |
| Oil resistant | no |
| Operating Temperature | -20 – 60 °C |
| Operating-/ tempering voltage | max. 50 V DC |
| Outer diameter of the cable | 3.6 mm |
| Ozone resistance | No |
| Pin assignment | 1:1 |
| Printing | Cat.6A Patchcord ULTRAFLEX U/UTP TPE 10G |
| Resistance unbalance | < 4 % |
| Resistant to chemicals | False |
| Silicone-free | True |
| 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 | no |

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**Available variants**

| ArtNr. | Bezeichnung | Length | POE class | Length tolerance |
|---|---|---|---|---|
| K8108SW.0,15 | RJ45 Patch Cord Cat.6A U/UTP TPE3,6mm ultraflex black 0,15m | 0.15 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at | ±5 % |
| K8108SW.0,25 | RJ45 Patch Cord Cat.6A U/UTP TPE3,6mm ultraflex black 0,25m | 0.25 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at | ±5 % |
| K8108SW.0,5 | RJ45 Patch Cord Cat.6A U/UTP TPE3,6mm ultraflex black 0,5m | 0.5 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at | ±5 % |
| K8108SW.1 | RJ45 Patch Cord Cat.6A U/UTP TPE3,6mm ultraflex black 1m | 1.0 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at | ±5 % |
| K8108SW.1,5 | RJ45 Patch Cord Cat.6A U/UTP TPE3,6mm ultraflex black 1,5m | 1.5 m | PoE acc. to IEEE802.3af | ±5 % |
| K8108SW.2 | RJ45 Patch Cord Cat.6A U/UTP TPE3,6mm ultraflex black 2m | 2.0 m | PoE acc. to IEEE802.3af | ±5 % |
| K8108SW.3 | RJ45 Patch Cord Cat.6A U/UTP TPE3,6mm ultraflex black 3m | 3.0 m | PoE acc. to IEEE802.3af | ±5 % |
| K8108SW.5 | RJ45 Patch Cord Cat.6A U/UTP TPE3,6mm ultraflex black 5m | 5.0 m | PoE acc. to IEEE802.3af | ±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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