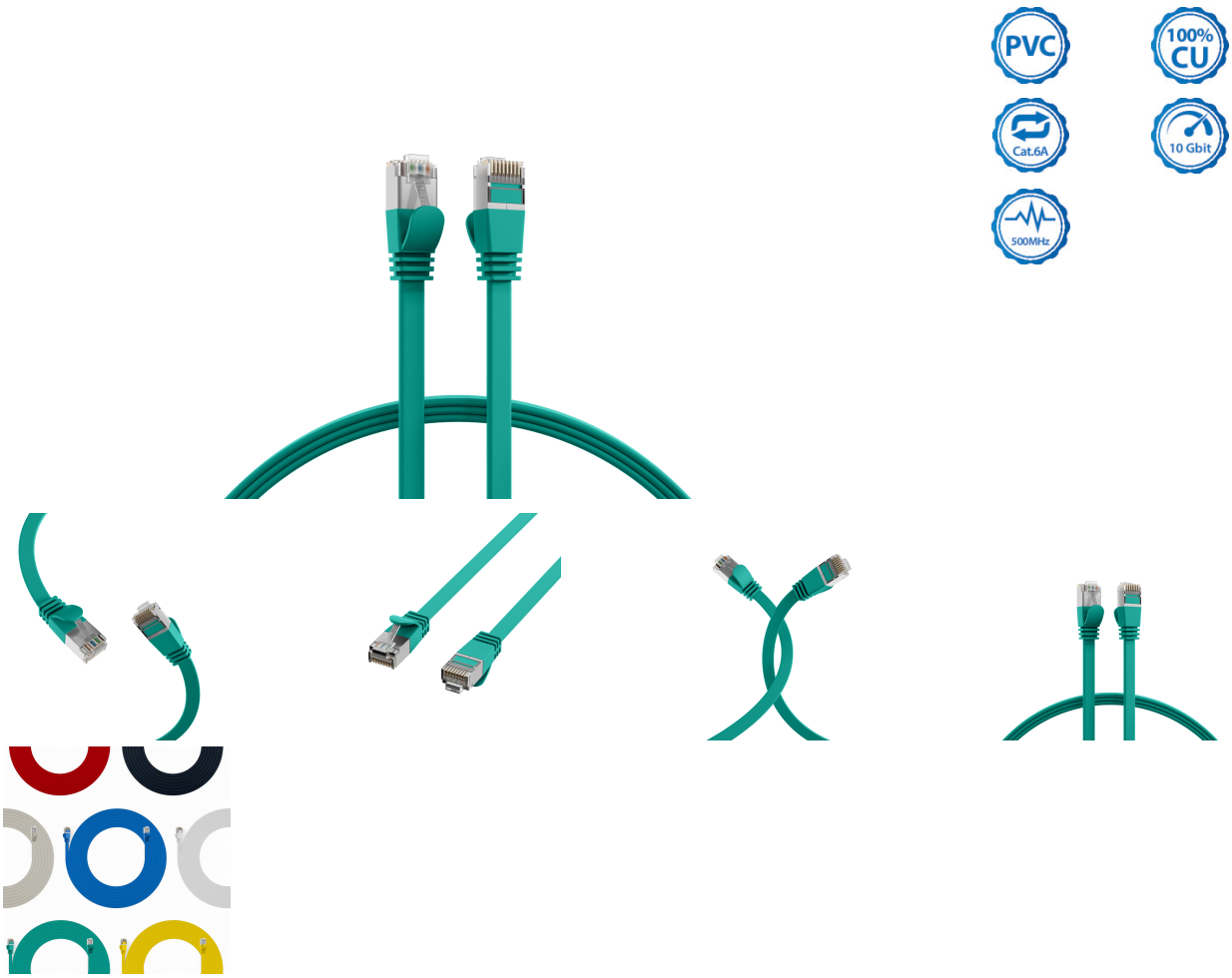
# DATASHEET

## RJ45 Flat Patch Cord Cat.6A U/FTP PVC green 1,5m




### General data

The Cat.6A (TIA) network cable of the EFB-Elektronik brand transmits data up to 10Gbit. The U/FTP shielding reliably protects against interference and ensures high-quality signals. Because it is a Cat.6A (TIA) Ethernet cable, it offers a frequency range of up to 500MHz, which enables high data transmission performance.

• Space-saving cabling – the flat cable is designed for kink-free installation in confined spaces.
• 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).

Product Description
This network cable offers enhanced pair-level interference resistance (U/FTP) – individually foil-shielded wire pairs

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reduce crosstalk, increase data security, and ensure stable high-speed transmission. 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 >20 mm. The Ethernet cable is IP20 rated. The polyvinyl chloride (PVC) jacket is a flexible standard jacket for network applications, without special fire protection properties.

Technical details
- Cat.6A (TIA)
- Connector: RJ45 8(8) to RJ45 8(8) with extra-short RJ45 connectors
- Shielding: U/FTP cable with 4x2 x AWG30/7
- Cable shape: flat
- 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: Polyvinyl chloride (PVC) sheath material
- External dimensions of the cable: 7.0*2.2 mm
- With an injected anti-kink grommet
- Fire protection: flame-retardant according to IEC60332-1
- Degree of protection: IP20
- With a punctual screen contact
- 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 | >20 mm |
| Cable construction | 4x2 |
| Cable shape | flat |
| Cable type | U/FTP |
| Cabling standard | EN50173 |
| Category | 6A (TIA) |
| Colour anti-kink sleeve | green |
| Colour outer sheath | green |
| Conductive shield | Selected shield contact |
| Conductor Material | Copper |
| Conductor resistance DC | 376 Ω/km |
| Connector | IEC 60603-7-51 |
| Connector type | RJ45 short version |

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| | |
|---|---|
| Contacts | Gold plated |
| Current capacity | max. 1 A |
| Fire retardant version | acc. IEC60332-1 |
| Halogen free | False |
| Harmonised Standard | EN 50575 |
| Impedance | 100 ±15 Ω |
| Insulation Resistance | 100 MΩ |
| Length imprint | False |
| Locking lever | True |
| Loop resistance | 752 Ω/km |
| Material outer sheath | Polyvinylchlorid (PVC) |
| Mating cycles | ≥750 |
| Model | shielded |
| NVP value | 76 % |
| Oil resistant | no |
| Operating Temperature | -20 – 60 °C |
| Operating-/ tempering voltage | max. 50 V DC |
| Outer diameter of the cable | 7.0*2.2 mm |
| Ozone resistance | No |
| Pin assignment | 1:1 |
| Printing | SLIM PATCHCABLE U/FTP CAT.6A ***10GE*** |
| 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 | Nein |

### Available variants

| ArtNr. | Bezeichnung | Length | POE class | Length tolerance |
|---|---|---|---|---|
| K5545GN.0,15 | RJ45 Flat Patch Cord Cat.6A U/FTP PVC green 0.15m | 0.15 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at | ±5 % |

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| | | | | |
|---|---|---|---|---|
| K5545GN.0,25 | RJ45 Flat Patch Cord Cat.6A U/FTP PVC green 0,25m | 0.25 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at | ±5 % |
| K5545GN.0,5 | RJ45 Flat Patch Cord Cat.6A U/FTP PVC green 0,5m | 0.5 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at | ±5 % |
| K5545GN.1 | RJ45 Flat Patch Cord Cat.6A U/FTP PVC green 1m | 1.0 m | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at | ±5 % |
| K5545GN.1,5 | RJ45 Flat Patch Cord Cat.6A U/FTP PVC green 1,5m | 1.5 m | PoE acc. to IEEE802.3af | ±5 % |
| K5545GN.2 | RJ45 Flat Patch Cord Cat.6A U/FTP PVC green 2m | 2.0 m | PoE acc. to IEEE802.3af | ±5 % |
| K5545GN.3 | RJ45 Flat Patch Cord Cat.6A U/FTP PVC green 3m | 3.0 m | PoE acc. to IEEE802.3af | ±5 % |
| K5545GN.5 | RJ45 Flat Patch Cord Cat.6A U/FTP PVC green 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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