

# DATASHEET

## RJ45 Patch Cord Cat.6 U/UTP PVC CCA black 10m



### General data

The Cat.6 patch cable from EFB-Elektronik supports data transmissions up to 5Gbit. Since it is a Cat.6 Ethernet cable, it offers a frequency range of up to 250MHz, which provides high data transmission performance.

- 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.
- Ensure reliable 5 Gigabit connections – gold-plated contact surfaces reduce contact resistance and contact corrosion, which supports signal quality and thus stable 5Gbps transmission.
- Reliable 250MHz bandwidth performance ensures high-speed data transmission.

### Product Description

The unshielded design in this U/UTP patch 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 >30 mm. The network 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.6
- Connector: RJ45 8(8) to RJ45 8(8) with RJ45 connectors
- Shielding: U/UTP cable with 4x2 x AWG24/7

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- Cable shape: round
- Pin assignment: 1:1 according to TIA/EIA 568B
- Gold-plated contacts
- Sheath: Polyvinyl chloride (PVC) sheath material
- Outer diameter: 5.9 mm
- With an injected anti-kink grommet
- Fire protection: flame-retardant according to IEC60332-1
- Degree of protection: IP20
- Mating cycles:  $\geq 750$
- With length print
- Brand: EFB-Elektronik

### Technical properties

|                         |                        |
|-------------------------|------------------------|
| AWG-size                | 24/7                   |
| Allocation              | acc. TIA/EIA 568B      |
| Anti-kink sleeve        | moulded-on             |
| Area of Application     | Industrial Ethernet    |
| Bandwidth               | 250MHz                 |
| Bending radius          | >30 mm                 |
| Cable construction      | 4x2                    |
| Cable shape             | rund                   |
| Cable type              | U/UTP                  |
| Cabling standard        | EN50173                |
| Category                | 6                      |
| Colour anti-kink sleeve | black                  |
| Colour outer sheath     | black                  |
| Conductive shield       | No                     |
| Conductor Material      | CCA                    |
| Connector               | IEC 60603-7-4          |
| Connector type          | RJ45 standard          |
| Contacts                | Gold plated            |
| Current capacity        | max. 1 A               |
| Fire retardant version  | acc. IEC60332-1        |
| Halogen free            | False                  |
| Harmonised Standard     | EN 50575               |
| Impedance               | 100                    |
| Length imprint          | True                   |
| Locking lever           | False                  |
| Material outer sheath   | Polyvinylchlorid (PVC) |
| Mating cycles           | $\geq 750$             |

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|                                        |                                                                                                                            |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Model                                  | unshielded                                                                                                                 |
| 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                                                                                                                        |
| Printing                               | CAT.6 U/UTP AWG24 stranded × 4pairs cable ***5 GIGABIT*** <a href="http://www.efb-elektronik.de">www.efb-elektronik.de</a> |
| 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                           | 5Gbit                                                                                                                      |
| 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 |
|--------------|-------------------------------------------------|------------------|----|------------------|
| K8100SW.0,25 | RJ45 Patch Cord Cat.6 U/UTP PVC CCA black 0,25m | 0.25 m           | No | ±5 %             |
| K8100SW.0,5  | RJ45 Patch Cord Cat.6 U/UTP PVC CCA black 0,5m  | 0.5 m            | No | ±5 %             |
| K8100SW.1    | RJ45 Patch Cord Cat.6 U/UTP PVC CCA black 1m    | 1.0 m            | No | ±5 %             |
| K8100SW.1,5  | RJ45 Patch Cord Cat.6 U/UTP PVC CCA black 1,5m  | 1.5 m            | No | ±5 %             |
| K8100SW.10   | RJ45 Patch Cord Cat.6 U/UTP PVC CCA black 10m   | 10.0 m           | No | ±5 %             |
| K8100SW.15   | RJ45 Patch Cord Cat.6 U/UTP PVC CCA black 15m   | 15.0 m           | No | ±5 %             |
| K8100SW.2    | RJ45 Patch Cord Cat.6 U/UTP PVC CCA black 2m    | 2.0 m            | No | ±5 %             |
| K8100SW.20   | RJ45 Patch Cord Cat.6 U/UTP PVC CCA black 20m   | 20.0 m           | No | ±5 %             |
| K8100SW.3    | RJ45 Patch Cord Cat.6 U/UTP PVC CCA black 3m    | 3.0 m            | No | ±5 %             |
| K8100SW.30   | RJ45 Patch Cord Cat.6 U/UTP PVC CCA black 30m   | 30.0 m           | No | ±5 %             |
| K8100SW.5    | RJ45 Patch Cord Cat.6 U/UTP PVC CCA black 5m    | 5.0 m            | No | ±5 %             |
| K8100SW.7,5  | RJ45 Patch Cord Cat.6 U/UTP PVC CCA black 7,5m  | 7.5 m            | No | ±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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