

# DATASHEET

## RJ45 Patch Cord Cat.5e U/UTP PVC CCA yellow 25m



### General data

The Cat.5e Ethernet cable from EFB-Elektronik supports 2.5Gbit. Because it is a Cat.5e patch cable, it supports a frequency range of up to 100MHz.

- 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 2.5 Gigabit connections – gold-plated contact surfaces reduce contact resistances and contact corrosion, which supports signal quality and thus stable 2.5 Gbps transmission.
- Reliable performance of 100MHz bandwidth ensures high-speed data transmission.

### Product Description

The unshielded design in this U/UTP patch cable enables cost-efficient 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 >27 mm. The LAN 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.5e
- Connector: RJ45 8(8) to RJ45 8(8) with RJ45 connectors
- Shielding: U/UTP cable with 4x2 x AWG24/7

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- Pin assignment: 1:1 according to TIA/EIA 568B
- Gold-plated contacts
- Sheath: Polyvinyl chloride (PVC) sheath material
- Outer diameter: 5.4 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               | 100MHz                   |
| Bending radius          | $>27$ mm                 |
| Cable construction      | 4x2                      |
| Cable type              | U/UTP                    |
| Cabling standard        | EN50173                  |
| Category                | 5e                       |
| Colour anti-kink sleeve | yellow                   |
| Colour outer sheath     | yellow                   |
| Conductive shield       | No                       |
| Conductor Material      | CCA                      |
| Connector               | IEC 60603-7-2            |
| Connector type          | RJ45 standard            |
| Contact Resistance      | $< 20$ m $\Omega$        |
| Contacts                | Gold plated              |
| Current capacity        | max. 1 A                 |
| Fire retardant version  | acc. IEC60332-1          |
| Halogen free            | No                       |
| Impedance               | 100                      |
| Length imprint          | True                     |
| Locking lever           | False                    |
| Material outer sheath   | Polyvinyl chloride (PVC) |
| Mating cycles           | $\geq 750$               |
| Model                   | unshielded               |
| Oil resistant           | no                       |

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|                                        |                                                                                                                                     |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Operating Temperature                  | 0 – 60 °C                                                                                                                           |
| Operating-/ tempering voltage          | max. 50 V DC                                                                                                                        |
| Outer diameter of the cable            | 5.4 mm                                                                                                                              |
| Ozone resistance                       | No                                                                                                                                  |
| Pin assignment                         | 1:1                                                                                                                                 |
| Printing                               | UTP Cat.5E 100MHZ 24AWGX4P Patch ISO/IEC 11801 & EN 50173 verified <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                           | 2.5Gbit                                                                                                                             |
| Type of connector connection 1         | RJ45 8(8)                                                                                                                           |
| Type of connector connection 2         | RJ45 8(8)                                                                                                                           |

### Available variants

| ArtNr.   | Bezeichnung                                     | Length POE class |    | Length tolerance |
|----------|-------------------------------------------------|------------------|----|------------------|
| K8095.2  | RJ45 Patch Cord Cat.5e U/UTP PVC CCA yellow 2m  | 2.0 m            | No | ±5 %             |
| K8095.20 | RJ45 Patch Cord Cat.5e U/UTP PVC CCA yellow 20m | 20.0 m           | No | ±5 %             |
| K8095.25 | RJ45 Patch Cord Cat.5e U/UTP PVC CCA yellow 25m | 25.0 m           | No | ±5 %             |
| K8095.3  | RJ45 Patch Cord Cat.5e U/UTP PVC CCA yellow 3m  | 3.0 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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