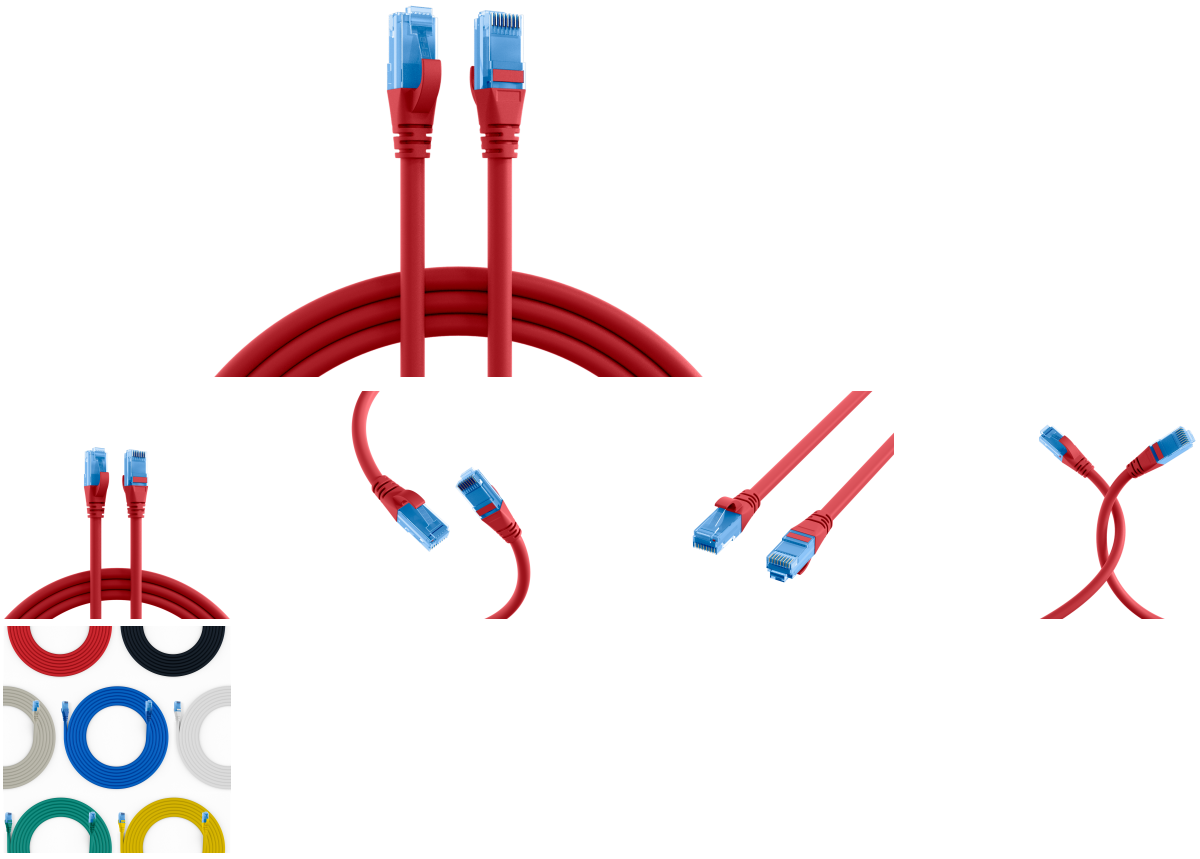
# DATASHEET

## RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex red 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.**

EFB-Elektronik GmbH
Striegauer Straße 1
33719 Bielefeld

fon: +49 521 40 41 8-0
fax: +49 521 40 41 8-50

info@efb-elektronik.de
www.efb-elektronik.de

WIR SORGEN FÜR VERBINDUNG
WE CARE FOR CONNECTION

# DATASHEET

## RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex red 5m

**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



EFB-Elektronik GmbH
Striegauer Straße 1
33719 Bielefeld

fon: +49 521 40 41 8-0
fax: +49 521 40 41 8-50

info@efb-elektronik.de
www.efb-elektronik.de

# DATASHEET

## RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex red 5m

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 | red |
| Colour outer sheath | red |
| 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 |

# DATASHEET

## RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex red 5m

| | |
|---|---|
| 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 |
|---|---|---|---|---|
| K8119RT.0,25 | RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex red 0.25m | 0.25 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8119RT.0,5 | RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex red 0.5m | 0.5 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8119RT.1 | RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex red 1m | 1.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8119RT.1,5 | RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex red 1.5m | 1.5 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8119RT.10 | RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex red 10m | 10.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8119RT.15 | RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex red 15m | 15.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8119RT.2 | RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex red 2m | 2.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8119RT.3 | RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex red 3m | 3.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8119RT.5 | RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex red 5m | 5.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K8119RT.7,5 | RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex red 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**

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

EFB-Elektronik GmbH
Striegauer Straße 1
33719 Bielefeld

fon: +49 521 40 41 8-0
fax: +49 521 40 41 8-50

info@efb-elektronik.de
www.efb-elektronik.de

WIR SORGEN FÜR VERBINDUNG
WE CARE FOR CONNECTION

# DATASHEET

## RJ45 Patch Cord Cat.6A U/UTP TPE 500Mhz superflex red 5m

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.

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

EFB-Elektronik GmbH
Striegauer Straße 1
33719 Bielefeld

fon: +49 521 40 41 8-0
fax: +49 521 40 41 8-50

info@efb-elektronik.de
www.efb-elektronik.de

WIR SORGEN FÜR VERBINDUNG
WE CARE FOR CONNECTION