

# DATASHEET

## RJ45 Patch Cord Cat.6 S/FTP LSZH red 30m



### General data

This Cat.6 LAN cable from EFB-Elektronik supports data transfers up to 5Gbit. The S/FTP shielding reliably protects against interference and ensures high signal quality. Since it is a Cat.6 patch cable, it supports a frequency range of up to 250MHz, which enables high data transmission performance.

- Increase interference immunity in electromagnetically charged environments - double shielding (S/FTP) improves EMC reserve, reduces susceptibility to radiation and stabilizes transmission in parallel cable routing.
- 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 devices via a cable - reduces cabling effort because data and power are transmitted via 4PPoE to IEEE802.3bt on a single line. 4PPoE according to IEEE802.3bt can only be used up to certain cable lengths.

### Product Description

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The S/FTP network cable has double shielding, which effectively reduces electromagnetic interference. 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 >31 mm. The network cable is IP20 rated. The LSZH jacket is halogen-free and low-smoke. In the event of a fire, it minimizes smoke development and increases indoor safety.

### Technical details

- Cat.6
- Connector: RJ45 8(8) to RJ45 8(8) with RJ45 connectors
- Shielding: S/FTP cable with 4x2 x AWG27/7
- Cable shape: round
- Pin assignment: 1:1 according to TIA/EIA 568B
- Equivalent to PoE class: PoE to IEEE802.3af, PoE+ to IEEE802.3at, and 4PPoE to IEEE802.3bt
- Gold-plated contacts
- Sheath: LSZH sheath material
- Outer diameter: 6.2 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 a punctual screen contact
- With locking lever protection
- Mating cycles: ≥750
- With length print
- Brand: EFB-Elektronik

### Technical properties

|                         |                         |
|-------------------------|-------------------------|
| AWG-size                | 27/7                    |
| Allocation              | acc. TIA/EIA 568B       |
| Anti-kink sleeve        | moulded-on              |
| Area of Application     | Industrial Ethernet     |
| Bandwidth               | 250MHz                  |
| Bending radius          | >31 mm                  |
| Cable construction      | 4x2                     |
| Cable shape             | rund                    |
| Cable type              | S/FTP                   |
| Cabling standard        | EN50173                 |
| Category                | 6                       |
| Colour anti-kink sleeve | red                     |
| Colour outer sheath     | red                     |
| Conductive shield       | Selected shield contact |
| Conductor Material      | Copper                  |
| Conductor resistance DC | 185 Ω/km                |

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|                                        |                                                                                                                                                                        |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connector                              | IEC 60603-7-5                                                                                                                                                          |
| Connector type                         | RJ45 standard                                                                                                                                                          |
| Contact Resistance                     | 30 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                                                                                                                                                                    |
| Insulation Resistance                  | 10 MΩ                                                                                                                                                                  |
| Length imprint                         | True                                                                                                                                                                   |
| Locking lever                          | True                                                                                                                                                                   |
| Loop resistance                        | 370 Ω/km                                                                                                                                                               |
| Low smoke                              | acc. IEC61034                                                                                                                                                          |
| Material outer sheath                  | LSZH                                                                                                                                                                   |
| Mating cycles                          | ≥750                                                                                                                                                                   |
| Model                                  | shielded                                                                                                                                                               |
| Oil resistant                          | no                                                                                                                                                                     |
| Operating Temperature                  | -20 - 60 °C                                                                                                                                                            |
| Operating-/ tempering voltage          | max. 50 V DC                                                                                                                                                           |
| Outer diameter of the cable            | 6.2 mm                                                                                                                                                                 |
| Ozone resistance                       | No                                                                                                                                                                     |
| Pin assignment                         | 1:1                                                                                                                                                                    |
| Printing                               | Cat.6 S/FTP 4x2xAWG27/7 PIMF ISO/IEC 11801 & EN50173-1 TIA/EIA 568B.2-1 Halogen Free ***Gigabit***<br><a href="http://www.efb-elektronik.de">www.efb-elektronik.de</a> |
| Resistance unbalance                   | 5 %                                                                                                                                                                    |
| 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                                                                                                                                                                   |

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### Available variants

| ArtNr.     | Bezeichnung                                | Length POE class |                                                                           | Length tolerance |
|------------|--------------------------------------------|------------------|---------------------------------------------------------------------------|------------------|
| K5512.0,15 | RJ45 Patch Cord Cat.6 S/FTP LSZH red 0,15m | 0.15 m           | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K5512.0,25 | RJ45 Patch Cord Cat.6 S/FTP LSZH red 0,25m | 0.25 m           | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K5512.0,5  | RJ45 Patch Cord Cat.6 S/FTP LSZH red 0,5m  | 0.5 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K5512.1    | RJ45 Patch Cord Cat.6 S/FTP LSZH red 1m    | 1.0 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K5512.1,5  | RJ45 Patch Cord Cat.6 S/FTP LSZH red 1,5m  | 1.5 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K5512.10   | RJ45 Patch Cord Cat.6 S/FTP LSZH red 10m   | 10.0 m           | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K5512.15   | RJ45 Patch Cord Cat.6 S/FTP LSZH red 15m   | 15.0 m           | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at                           | ±5 %             |
| K5512.2    | RJ45 Patch Cord Cat.6 S/FTP LSZH red 2m    | 2.0 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K5512.20   | RJ45 Patch Cord Cat.6 S/FTP LSZH red 20m   | 20.0 m           | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at                           | ±5 %             |
| K5512.25   | RJ45 Patch Cord Cat.6 S/FTP LSZH red 25m   | 25.0 m           | PoE acc. to IEEE802.3af                                                   | ±5 %             |
| K5512.3    | RJ45 Patch Cord Cat.6 S/FTP LSZH red 3m    | 3.0 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K5512.30   | RJ45 Patch Cord Cat.6 S/FTP LSZH red 30m   | 30.0 m           | PoE acc. to IEEE802.3af                                                   | ±5 %             |
| K5512.40   | RJ45 Patch Cord Cat.6 S/FTP LSZH red 40m   | 40.0 m           | No                                                                        | ±5 %             |
| K5512.5    | RJ45 Patch Cord Cat.6 S/FTP LSZH red 5m    | 5.0 m            | PoE acc. to IEEE802.3af;PoE acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K5512.50   | RJ45 Patch Cord Cat.6 S/FTP LSZH red 50m   | 50.0 m           | No                                                                        | ±5 %             |
| K5512.7,5  | RJ45 Patch Cord Cat.6 S/FTP LSZH 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 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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