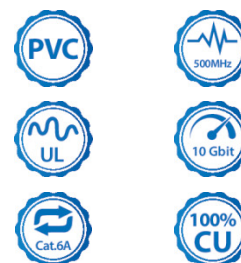


# DATASHEET

## RJ45 Patch Cord Cat.6A S/FTP PVC UL grey 30m



### General data

The Cat.6A (TIA) data cable from the EFB-Elektronik brand supports data transmissions up to 10Gbit. The S/FTP shielding reliably protects against interference and ensures high signal quality. Because it is a Cat.6A (TIA) data cable, it offers a frequency range of up to 500MHz, which provides 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.
- Reliable performance for your network connection – the pure copper conductor material ensures stable data transmission and supports consistent signal quality in typical IT and home network applications.

### Product Description

The S/FTP patch cable has a double shield that effectively reduces electromagnetic interference. The temperature range of the cable is -20 – 75 °C. The wide range of possible applications is supported by the bending radius of >34 mm. The patch cord 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)

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## RJ45 Patch Cord Cat.6A S/FTP PVC UL grey 30m

- Connector: RJ45 8(8) to RJ45 8(8) with RJ45 connectors
- Shielding: S/FTP cable with 4x2 x AWG24/7
- 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
- UL approved
- Gold-plated contacts
- Sheath: Polyvinyl chloride (PVC) sheath material
- Outer diameter: 6.8 mm
- With an injected anti-kink grommet
- Fire protection: flame-retardant according to IEC60332-1
- Degree of protection: IP20
- With a 360° umbrella attachment
- With locking lever protection
- Mating cycles:  $\geq 750$
- 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               | 500MHz              |
| Bending radius          | >34 mm              |
| Cable construction      | 4x2                 |
| Cable shape             | rund                |
| Cable type              | S/FTP               |
| Cabling standard        | EN50173             |
| Category                | 6A (TIA)            |
| Colour anti-kink sleeve | grey                |
| Colour outer sheath     | grey                |
| Conductive shield       | 360° shield contact |
| Conductor Material      | Copper              |
| Connector               | IEC 60603-7-51      |
| Connector type          | RJ45 standard       |
| Contact Resistance      | < 20 mΩ             |
| Contacts                | Gold plated         |
| Current capacity        | max. 1 A            |
| Fire retardant version  | acc. IEC60332-1     |
| Halogen free            | False               |
| Harmonised Standard     | EN 50575            |

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## RJ45 Patch Cord Cat.6A S/FTP PVC UL grey 30m

|                                        |                                                                                     |
|----------------------------------------|-------------------------------------------------------------------------------------|
| Impedance                              | 100 ±15 Ω                                                                           |
| Insulation Resistance                  | ≥ 500 MΩ                                                                            |
| Length imprint                         | False                                                                               |
| Locking lever                          | True                                                                                |
| Material outer sheath                  | PVC                                                                                 |
| Mating cycles                          | ≥750                                                                                |
| Model                                  | shielded                                                                            |
| Oil resistant                          | no                                                                                  |
| Operating Temperature                  | -20 - 75 °C                                                                         |
| Operating-/ tempering voltage          | max. 50 V DC                                                                        |
| Outer diameter of the cable            | 6.8 mm                                                                              |
| Ozone resistance                       | No                                                                                  |
| Pin assignment                         | 1:1                                                                                 |
| Printing                               | E132276-C (UL) CM 75° 4PR 26AWG CSA LL64151-C CMG 75°C FT4 Cat.6(A) SSTP PATCH CORD |
| 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                                                                                |
| UV resistant                           | no                                                                                  |

### Available variants

| ArtNr.     | Bezeichnung                                  | Length POE class |                                                                            | Length tolerance |
|------------|----------------------------------------------|------------------|----------------------------------------------------------------------------|------------------|
| K5537GR.20 | RJ45 Patch Cord Cat.6A S/FTP PVC UL grey 20m | 20.0 m           | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K5537GR.30 | RJ45 Patch Cord Cat.6A S/FTP PVC UL grey 30m | 30.0 m           | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K5537GR.40 | RJ45 Patch Cord Cat.6A S/FTP PVC UL grey 40m | 40.0 m           | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K5537GR.50 | RJ45 Patch Cord Cat.6A S/FTP PVC UL grey 50m | 50.0 m           | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K5537GR.60 | RJ45 Patch Cord Cat.6A S/FTP PVC UL grey 60m | 60.0 m           | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| K5537GR.70 | RJ45 Patch Cord Cat.6A S/FTP PVC UL grey 70m | 70.0 m           | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |

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## RJ45 Patch Cord Cat.6A S/FTP PVC UL grey 30m

|            |                                                 |        |                                                                               |      |
|------------|-------------------------------------------------|--------|-------------------------------------------------------------------------------|------|
| K5537GR.80 | RJ45 Patch Cord Cat.6A S/FTP<br>PVC UL grey 80m | 80.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to<br>IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| K5537GR.90 | RJ45 Patch Cord Cat.6A S/FTP<br>PVC UL grey 90m | 90.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to<br>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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