

# DATASHEET

## RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED red 7.5m



### General data

RJ45 patch cable Cat.6A S/FTP FRNC VC LED

The Cat.6A (TIA) patch cable has gold-plated contacts and enables 10Gbit Ethernet as a transmission standard.

Technical product properties

- Cat.6A (TIA)
- S/FTP cable with AWG26/7
- Jacket material made of halogen-free LSZH
- Fire protection: flame-retardant, halogen-free, low smoke
- Plug connection: RJ45 to RJ45
- With locking lever protection
- Has gold-plated contacts

The jacket of the shielded patch cable is made of halogen-free LSZH material and has a length imprint on the

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grommet. The cable also offers the option of power supply via PoE according to IEEE802.3af, PoE+ according to IEEE802.3at and 4PPoE according to IEEE802.3bt.

The RJ45 LED connector makes it easy to track the cable route. The assignment is according to TIA/EIA 568B and is 1:1.

The LAN cable has a conductor material made of copper and is ideal for applications in structured building cabling, industrial Ethernet and in data centers. The bandwidth is up to 500 MHz.

| Technical properties    |                     |
|-------------------------|---------------------|
| AWG-size                | 26/7                |
| Allocation              | acc. TIA/EIA 568B   |
| Anti-kink sleeve        | put-on              |
| Area of application     | Data center         |
| Bending radius          | >20 mm              |
| Cable construction      | 4x2                 |
| Cable shape             | round               |
| Cable type              | S/FTP               |
| Cabling standard        | ANSI/TIA-568        |
| Category                | 6A (TIA)            |
| Colour anti-kink sleeve | red                 |
| Colour outer sheath     | red                 |
| Conductive shield       | 360° shield contact |
| Conductor Material      | Copper              |
| Conductor resistance DC | 165 Ω/km            |
| Connector               | IEC 60603-7-51      |
| Connector type          | RJ45 LED            |
| Contacts                | Gold plated         |
| Current capacity        | max. 1 A            |
| Fire retardant version  | acc. IEC60332-3     |
| Halogen free            | acc. IEC60754-2     |
| Harmonised Standard     | EN 50575            |
| Impedance               | 100 ±15 Ω           |
| Insulation Resistance   | > 5000 MΩ           |
| Jacket material         | LSZH                |
| Length imprint          | True                |
| Locking lever           | True                |
| Loop resistance         | 330 Ω/km            |
| Low smoke               | acc. IEC61034       |

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|                                        |                                                |
|----------------------------------------|------------------------------------------------|
| 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                               | LED VC45 Patchkabel Cat.6A ISO S/FTP 4x2xAWG27 |
| Resistant to chemicals                 | False                                          |
| Suitable for degree of protection (IP) | IP20                                           |
| Tape width                             | 500MHz                                         |
| Temperature Range (Installation)       | 0 - 50 °C                                      |
| Temperature Range (Operation)          | -25 - 60 °C                                    |
| Test voltage                           | 1000 (V DC, 1min) core/core und core/screen    |
| Total screening                        | >65 %                                          |
| Transmission                           | 10Gbit                                         |
| Type of connector connection 1         | RJ45 8(8)                                      |
| Type of connector connection 2         | RJ45 8(8)                                      |
| UL approbated                          | False                                          |
| UV resistant                           | no                                             |

### Available variants

| ArtNr.        | Bezeichnung                                       | Length POE class |                                                                            | Length tolerance |
|---------------|---------------------------------------------------|------------------|----------------------------------------------------------------------------|------------------|
| DCK1001RT.1   | RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED red 1m   | 1.0 m            | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| DCK1001RT.2   | RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED red 2m   | 2.0 m            | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| DCK1001RT.3   | RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED red 3m   | 3.0 m            | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| DCK1001RT.5   | RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED red 5m   | 5.0 m            | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| DCK1001RT.0,5 | RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED red 0.5m | 0.5 m            | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| DCK1001RT.1,5 | RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED red 1.5m | 1.5 m            | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |
| DCK1001RT.10  | RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED red 10m  | 10.0 m           | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 %             |

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|               |                                                   |        |                                                                            |      |
|---------------|---------------------------------------------------|--------|----------------------------------------------------------------------------|------|
| DCK1001RT.15  | RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED red 15m  | 15.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| DCK1001RT.20  | RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED red 20m  | 20.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| DCK1001RT.30  | RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED red 30m  | 30.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| DCK1001RT.50  | RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED red 50m  | 50.0 m | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |
| DCK1001RT.7,5 | RJ45 Patch Cord Cat.6A S/FTP FRNC VC LED red 7.5m | 7.5 m  | PoE acc. to IEEE802.3af;PoE+ acc. to IEEE802.3at;4PPoE acc. to IEEE802.3bt | ±5 % |

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