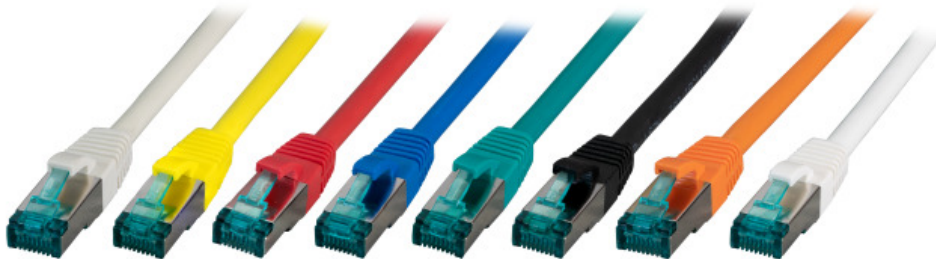


## RJ45 Patchkabel S/FTP, Cat. 6A, brown



### Description

The shielded Cat.6A RJ45 patch cable ensures excellent performance for **10 Gigabit** Ethernet applications. The moulded grommet captivates with its **slim design** and thus simplifies the insertion process in cramped conditions.

Cross section 4 x 2 x AWG27/7

**Length imprint on boot**

Available in **8 colours**

### General data

|                                |                                                    |
|--------------------------------|----------------------------------------------------|
| Area of Application            | Structured cabling;Industrial Ethernet;Data center |
| Category                       | 6A (TIA)                                           |
| Type of connector connection 1 | RJ45 8(8)                                          |
| Type of connector connection 2 | RJ45 8(8)                                          |
| Connector type                 | RJ45 Standard green                                |
| Contacts                       | Gold plated                                        |
| Pin assignment                 | 1:1                                                |
| Allocation                     | acc. TIA/EIA 568B                                  |
| Type                           | Shielded                                           |
| Length imprint                 | Yes                                                |
| Anti-kink sleeve               | plugged in                                         |
| Colour anti-kink sleeve        | brown                                              |
| Locking lever                  | Yes                                                |
| UL approbated                  | No                                                 |

### Mechanical characteristics

|               |      |
|---------------|------|
| Mating cycles | 2000 |
|---------------|------|

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## RJ45 Patchkabel S/FTP, Cat. 6A, brown

### Mechanical characteristics

|                                        |                         |
|----------------------------------------|-------------------------|
| Bending radius                         | >30 mm                  |
| Conductive shield                      | Selected shield contact |
| Suitable for degree of protection (IP) | IP20                    |

### Cable construction

|                    |        |
|--------------------|--------|
| Raw cable          | Cat.6A |
| Cable type         | S/FTP  |
| Total screening    | 80 %   |
| Cable construction | 4x2    |
| AWG-size           | 27/7   |
| Conductor Material | Copper |

### Cable sheath

|                             |                                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------|
| Silicone-free               | Yes                                                                                        |
| Jacket material             | LSZH                                                                                       |
| Colour outer sheath         | brown                                                                                      |
| Printing                    | Cat.6A PATCH S/FTP 4x2xAWG27/7 LSZH ISO/IEC11801 ANSI/TIA-568-C.2 ***10Gigabit Ethernet*** |
| Outer diameter of the cable | 6.0 mm                                                                                     |
| Flame-retardant             | Yes                                                                                        |
| Halogen-free                | Yes                                                                                        |
| Low smoke                   | Yes                                                                                        |

### Environmental conditions

|                   |             |
|-------------------|-------------|
| Temperature range | -20 – 60 °C |
|-------------------|-------------|

### Electrical characteristics

|                               |                                                                              |
|-------------------------------|------------------------------------------------------------------------------|
| NVP value                     | 74 %                                                                         |
| Impedance                     | 100 ±15 Ω                                                                    |
| Conductor resistance DC       | 185 Ω/km                                                                     |
| Loop resistance               | 370 Ω/km                                                                     |
| Resistance unbalance          | 3 %                                                                          |
| Insulation resistance         | 10 MΩ                                                                        |
| Contact resistance            | 30 mΩ                                                                        |
| Test voltage                  | 1000 V DC, 1min                                                              |
| POE class                     | PoE acc. to IEEE802.3af; PoE+ acc. to IEEE802.3at; 4PPoE acc. to IEEE802.3bt |
| Current capacity              | max. 1 A                                                                     |
| Operating-/ tempering voltage | max. 50 V DC                                                                 |

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## RJ45 Patchkabel S/FTP, Cat. 6A, brown

### Transmission characteristics

|              |        |
|--------------|--------|
| Bandwidth    | 500MHz |
| Transmission | 10Gbit |

### Standards, approvals, certifications

|           |                |
|-----------|----------------|
| Connector | IEC 60603-7-51 |
|-----------|----------------|

### Available variants

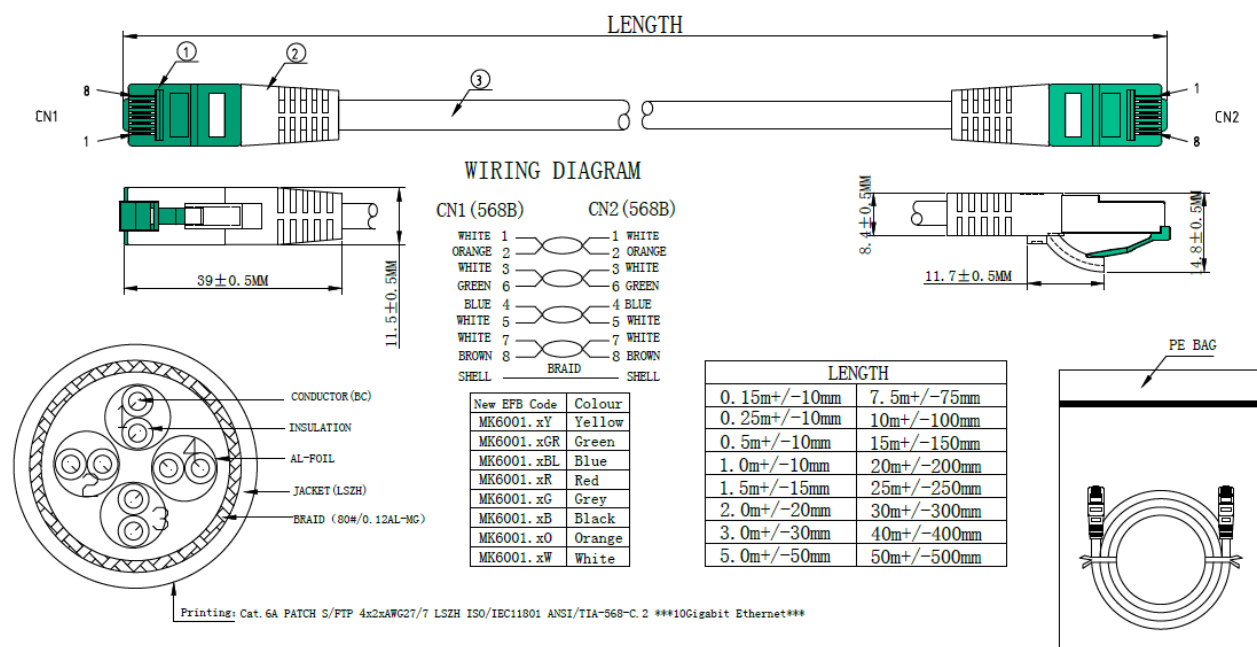
| Article no.   | Title                                              | Length | Length tolerance |
|---------------|----------------------------------------------------|--------|------------------|
| MK6001.0,15BR | RJ45 Patch cable S/FTP, Cat.6A, LSZH, 0.15m, brown | 0.15 m | ±5 %             |
| MK6001.0,25BR | RJ45 Patch cable S/FTP, Cat.6A, LSZH, 0.25m, brown | 0.25 m | ±5 %             |
| MK6001.0,5BR  | RJ45 Patch cable S/FTP, Cat.6A, LSZH, 0.50m, brown | 0.5 m  | ±5 %             |
| MK6001.1BR    | RJ45 Patch cable S/FTP, Cat.6A, LSZH, 1m, brown    | 1.0 m  | ±5 %             |
| MK6001.1,5BR  | RJ45 Patch cable S/FTP, Cat.6A, LSZH, 1.5m, brown  | 1.5 m  | ±5 %             |
| MK6001.2BR    | RJ45 Patch cable S/FTP, Cat.6A, LSZH, 2m, brown    | 2.0 m  | ±5 %             |
| MK6001.3BR    | RJ45 Patch cable S/FTP, Cat.6A, LSZH, 3m, brown    | 3.0 m  | ±5 %             |
| MK6001.5BR    | RJ45 Patch cable S/FTP, Cat.6A, LSZH, 5m, brown    | 5.0 m  | ±5 %             |
| MK6001.7,5BR  | RJ45 Patch cable S/FTP, Cat.6A, LSZH, 7.5m, brown  | 7.5 m  | ±5 %             |
| MK6001.10BR   | RJ45 Patch cable S/FTP, Cat.6A, LSZH, 10m, brown   | 10.0 m | ±5 %             |
| MK6001.15BR   | RJ45 Patch cable S/FTP, Cat.6A, LSZH, 15m, brown   | 15.0 m | ±5 %             |
| MK6001.20BR   | RJ45 Patch cable S/FTP, Cat.6A, LSZH, 20m, brown   | 20.0 m | ±5 %             |
| MK6001.25BR   | RJ45 Patch cable S/FTP, Cat.6A, LSZH, 25m, brown   | 25.0 m | ±5 %             |
| MK6001.30BR   | RJ45 Patch cable S/FTP, Cat.6A, LSZH, 30m, brown   | 30.0 m | ±5 %             |
| MK6001.40BR   | RJ45 Patch cable S/FTP, Cat.6A, LSZH, 40m, brown   | 40.0 m | ±5 %             |
| MK6001.50BR   | RJ45 Patch cable S/FTP, Cat.6A, LSZH, 50m, brown   | 50.0 m | ±5 %             |

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# DATASHEET

## RJ45 Patchkabel S/FTP, Cat. 6A, brown

### Technical drawings



### similar product

|            |                                         |
|------------|-----------------------------------------|
| MK6001.1O  | RJ45 Patch cable S/FTP, Cat. 6A, orange |
| MK6001.1G  | RJ45 Patch cable S/FTP, Cat. 6A, grey   |
| MK6001.1GR | RJ45 Patch cable S/FTP, Cat. 6A, green  |
| MK6001.1R  | RJ45 Patch cable S/FTP, Cat. 6A, red    |
| MK6001.1BL | RJ45 Patch cable S/FTP, Cat. 6A, blue   |
| MK6001.1Y  | RJ45 Patch cable S/FTP, Cat. 6A, yellow |
| MK6001.1B  | RJ45 Patch cable S/FTP, Cat. 6A, black  |