

## Data sheet

### Patch cord Cat.6<sub>A</sub> AWG 26 15.0 m purple-black

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P/N

130845A509-E

EAN 4251394624334

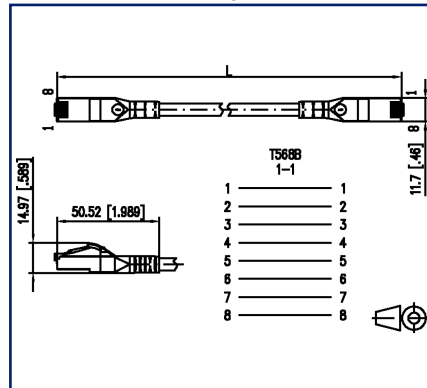
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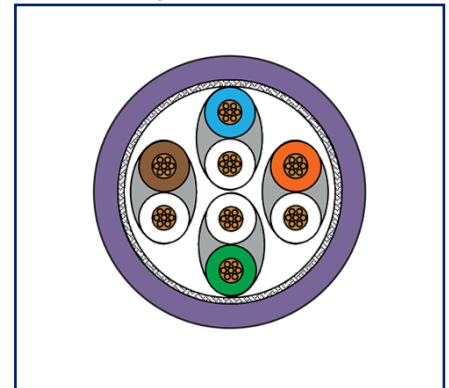
## Illustrations



Dimensional drawing



Principle diagram



See enlarged drawings at the end of document

## Product specification

- GHMT PVP certified fully shielded RJ45 patch cable Cat.6<sub>A</sub> AWG 26/7
- Ideal for integration or connection of network components and secure communication of voice, data, audio/video and/or PoE signals in bandwidth-intensive networks up to 10 GBit.
- especially suitable for unshielded and shielded Class E<sub>A</sub> systems
- two shielded RJ45 plugs, wiring 1 - 1
- LaBS-free and halogen free
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and HDBaseT
- cable boot injection molded with integrated latching lever protection
- same width for cable boot and RJ45 plug
- variants, color: black, white, gray, red, blue, yellow, green, orange-black, violet-black, purple-black
- variants, packaging unit: 1 piece in plastic bag (130845xyy-E) or 10 pieces in plastic bag (130845xyy-Z)
- all available variants can be generated via the configurator

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### Technical Data

#### General Data

|   |  |
|---|--|
| Fields of application                         | structured building cabling<br>Consolidation points<br>Industrial Ethernet<br>office areas<br>Distributed building services<br>data center<br>Tertiary |
| Mechanical measurement according to MICE      | M1   |
| Ingress measurement according to MICE         | I1   |
| Climatic measurement according to MICE        | C1   |
| Electromagnetic measurement according to MICE | E2   |
| Design  | patch cord   |
| Shielding                                     | shielded   |
| Transmission technology                       | Copper   |
| Cable Type                                    | S/FTP  |
| Number of twisting elements                   | 4  |
| Twisting element                              | Pair   |
| Wiring  | 1 - 1  |
| Color   | purple - black   |
| Dimensions                                    |  |
| Dimension - Interface 1 (L x W x H)           | 50.52 mm x 11.7 mm x 14.97 mm  |
| Dimension - Interface 1 (L x W x H)           | 1.989 in. x 0.461 in. x 0.589 in.  |
| Dimension - Interface 2 (L x W x H)           | 50.52 mm x 11.7 mm x 14.97 mm  |
| Dimension - Interface 2 (L x W x H)           | 1.989 in. x 0.461 in. x 0.589 in.  |
| Cable length (m)                              | 15 m   |
| Cable length (ft)                             | 49.21 ft   |
| Weight  | 42 kg/km   |
| Marking option                                | by cable boot  |

#### Transmission characteristics

|                 |                |
|-----------------|----------------|
| Category (ISO)  | 6 <sub>A</sub> |
| Class (ISO/IEC) | E <sub>A</sub> |
| Category (TIA)  | 6A             |
| Remote Powering | yes            |
| PoE             | IEEE 802.3af   |

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#### Transmission characteristics

|  |              |
|--|--------------|
| PoE plus   | IEEE 802.3at |
| UPoE   | yes          |
| HDBaseT  | yes          |
| Transmission rate up to 100 MBit (Fast Ethernet) | IEEE 802.3u  |
| Transmission rate up to 1 GBit (Fast Ethernet)   | IEEE 802.3ab |
| Transmission rate up to 10 GBit                  | IEEE 802.3an |

#### Connections/interfaces

|   |                       |
|---|-----------------------|
| Connector technology interface 1                | RJ45 plug             |
| Connector technology interface 2                | RJ45 plug             |
| Number of ports interface 1                     | 1                     |
| Number of ports interface 2                     | 1                     |
| Number of equipped ports interface 1            | 1                     |
| Number of ports interface 2 equipped            | 1                     |
| Number of positions/contacts interface 1        | 8P/8C                 |
| Number of positions/contacts interface 2        | 8P/8C                 |
| Termination data, stranded wire (min. - max.)   |                       |
| Conductor cross section, stranded wire          | AWG 26/7              |
| Conductor cross section, stranded wire          | 0.141 mm <sup>2</sup> |
| Conductor diameter, stranded wire (bare copper) | 0.483 mm              |
| Conductor diameter, stranded wire (bare copper) | 0.019 in.             |
| Cable sheath diameter (min. - max.)             |                       |
| Cable sheath diameter                           | 5.9 mm - 6.3 mm       |
| Copper index                                    | 24 kg/km              |

#### Electrical characteristics

|                           |               |
|---------------------------|---------------|
| Current carrying capacity | max. 1 A      |
| Rated voltage             | max. 60 V DC  |
| Contact resistance        | max. 20 mOhm  |
| Through resistance        | max. 200 mOhm |
| Insulation resistance     | min. 500 MOhm |
| Transfer impedance 1 MHz  | 25 mOhm/m     |
| Transfer impedance 10 MHz | 25 mOhm/m     |

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#### Electrical characteristics

|   |                  |
|---|------------------|
| Resistance unbalance  | max. 3 %         |
| Capacitance at 800 Hz   | Nom. 43 nF/km    |
| Delay skew  | max. 12 ns/100 m |
| Dielectric strength conductor-conductor (primarily)             | max. 500 V DC    |
| Dielectric strength conductor-conductor (primarily)             | max. 500 V AC    |
| Dielectric strength conductor-conductor (secondary)             | max. 500 V DC    |
| Dielectric strength conductor-conductor, peak value (secondary) | max. 500 V AC    |
| Dielectric strength conductor-shield                            | max. 500 V DC    |
| Dielectric strength conductor-shield, peak value                | max. 500 V AC    |

#### Mechanical data

|  |              |
|--|--------------|
| Tensile force  | 100 N        |
| Fire load  | 0.104 kWh/m  |
| Fire load  | 540 MJ/km    |
| Position/mounting of latch<br>standard installation position | top          |
| Bending radius without load                                  | max. 25.2 mm |
| Bending radius with load                                     | max. 50.4 mm |

#### Materials and material properties

|   |                    |
|---|--------------------|
| Material - Cable jacket                 | LSHF (LSOH)        |
| Material - Plug housing interface 1     | PC (polycarbonate) |
| Material - Plug housing interface 2     | PC (polycarbonate) |
| Material - Contact interface 1          | CuSn (tin bronze)  |
| Material - Contact interface 2          | CuSn (tin bronze)  |
| Material - Contact finish interface 1   | Au (gold)          |
| Material - Contact finish interface 2   | Au (gold)          |
| Material - Contact carriers interface 1 | Plastics           |
| Material - Contact carriers interface 2 | Plastics           |
| Material - Shield interface 1           | CuSn (tin bronze)  |
| Material - Shield interface 2           | CuSn (tin bronze)  |
| Material - Shield finish interface 1    | Sn (tin)           |
| Material - Shield finish interface 2    | Sn (tin)           |
| Halogen free                            | yes                |



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#### Materials and material properties

RoHS compliant

#### Environmental conditions

Temperature (min. - max.)

Temperature - Storage °C -20 °C - 60 °C

Temperature - Storage °F -4 °F - 140 °F

Temperature - Operating °C -20 °C - 60 °C

Temperature - Operating °F -4 °F - 140 °F

Temperature - Installation °C 0 °C - 50 °C

Temperature - Installation °F 32 °F - 122 °F

#### Certifications

GHMT PVP  yes

Note on GHMT PVP

Tested lengths: 1, 2, 5, 10 and 20 m

#### Standards/Regulations

Generic cabling systems

General requirements ISO/IEC 11801-1 | DIN EN 50173-1  
ANSI/TIA-568.2-D

Office buildings ISO/IEC 11801-2 | DIN EN 50173-2  
ANSI/TIA-568.2-D

Living units ISO/IEC 11801-4 | DIN EN 50173-4  
ANSI/TIA-570-D

Data centers ISO/IEC 11801-5 | DIN EN 50173-5  
ANSI/TIA-942-B

Connectors for electronic equipment

Free and fixed connectors IEC 60603-7-51

Specification for the testing of balanced and coaxial information technology cabling

Cords as specified in ISO/IEC 11801 and related standards IEC 61935-2

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### Classifications

|          |          |
|----------|----------|
| ETIM 5.0 | EC001262 |
| ETIM 6.0 | EC001262 |
| ETIM 7.0 | EC001262 |
| ETIM 8.0 | EC001262 |
| ETIM 9.0 | EC001262 |

### Packing details

|                   |                       |
|-------------------|-----------------------|
| Type of packaging | 1 pc(s) / plastic bag |
|-------------------|-----------------------|



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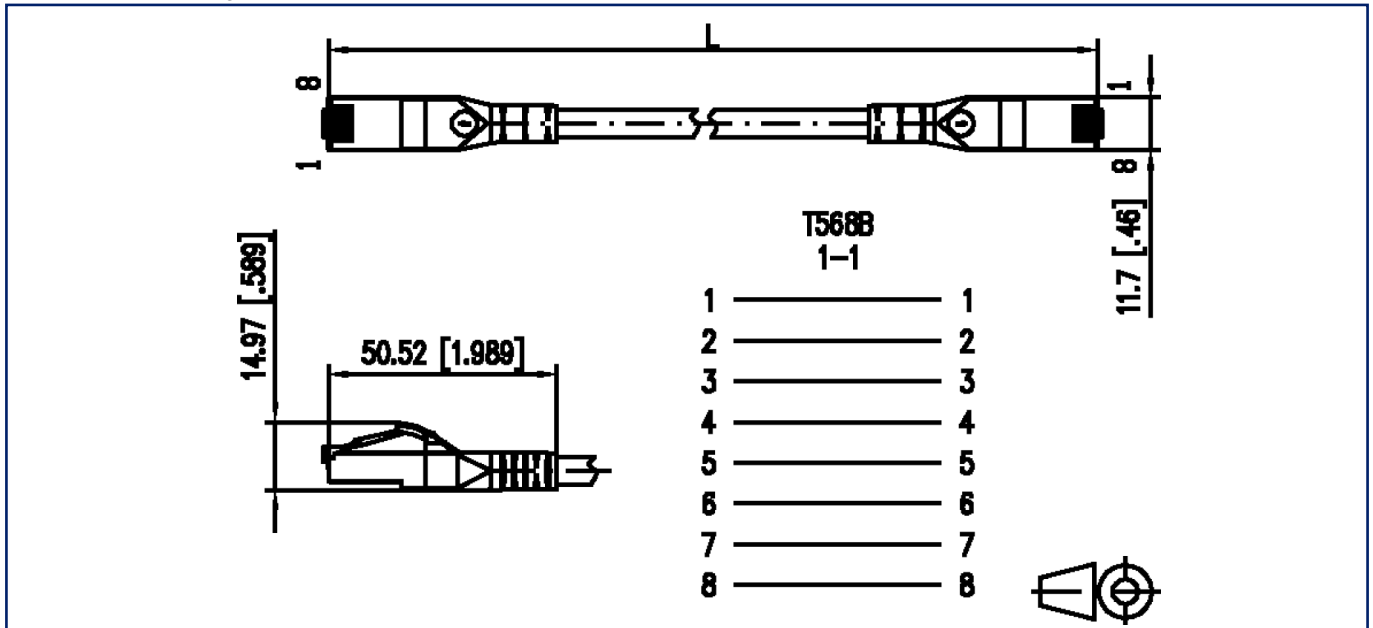
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