

# P | Cabling

## Data sheet

### E-DAT Industry patch cord RJ45 - RJ45 2.0 m

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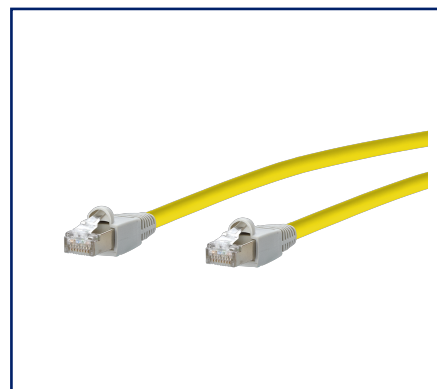
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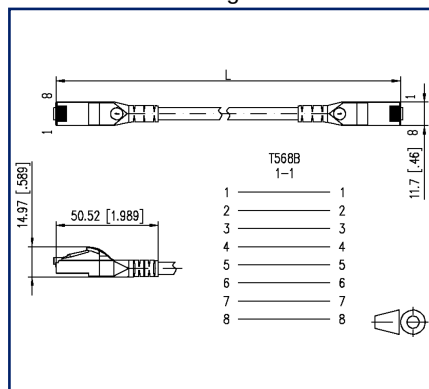
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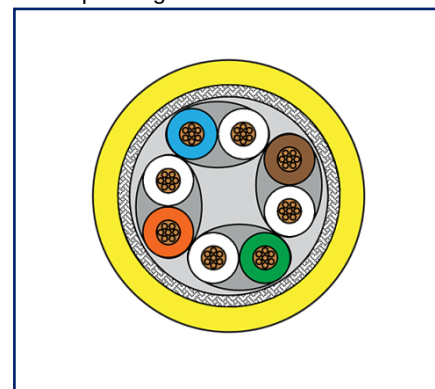
## Illustrations



Dimensional drawing



Principle diagram



See enlarged drawings at the end of document

## Product specification

- fully shielded Cat.6 patch cable AWG 26/7 S/FTP with PUR cable sheath
- 1:1 assignment
- compliance with class E according to ISO/IEC 11801, DIN EN 50173-1
- yellow cable, gray connector
- cable colors may differ
- for variant IP67 - IP67 the following lengths are available: 1, 2, 5, 10, 15 and 20 m
- for variant IP67 - RJ45 the following lengths are available: 1, 2, 3, 5, 10, 15 and 20 m
- for variant RJ45 - RJ45 the following lengths are available: 1, 2, 3, 5 and 7 m
- other lengths available

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### Technical Data

| General Data                                  |                                   |
|-----------------------------------------------|-----------------------------------|
| Fields of application                         | Industrial Ethernet               |
| 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                                         | yellow                            |
| Dimensions                                    |                                   |
| Dimension - Interface 1 (L x W x H)           | 50.52 mm x 14.97 mm x 11.7 mm     |
| Dimension - Interface 1 (L x W x H)           | 1.989 in. x 0.589 in. x 0.461 in. |
| Dimension - Interface 2 (L x W x H)           | 50.52 mm x 14.97 mm x 11.7 mm     |
| Dimension - Interface 2 (L x W x H)           | 1.989 in. x 0.589 in. x 0.461 in. |
| Cable length (m)                              | 2 m                               |

| Transmission characteristics                   |              |
|------------------------------------------------|--------------|
| Category (ISO)                                 | 6            |
| Class (ISO/IEC)                                | E            |
| PoE                                            | IEEE 802.3af |
| PoE plus                                       | IEEE 802.3at |
| UPoE                                           | yes          |
| Transmission rate up to 1 GBit (Fast Ethernet) | IEEE 802.3ab |

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### Technical Data

| 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                           | 5.8                   |

| Electrical characteristics |               |
|----------------------------|---------------|
| Contact resistance         | max. 20 mOhm  |
| Insulation resistance      | min. 500 MOhm |

| Mechanical data                                              |          |
|--------------------------------------------------------------|----------|
| Life - Number of mating cycles                               | min. 750 |
| Position/mounting of latch<br>standard installation position | top      |
| Bending radius without load                                  | 17.4 mm  |
| Bending radius with load                                     | 46.4 mm  |

| Materials and material properties   |                         |
|-------------------------------------|-------------------------|
| Material - Conductor                | Cu (copper)             |
| Material - Conductor Insulation     | Foam-Skin Polyethylen   |
| Material - Cable jacket             | PUR                     |
| Material - Plug housing interface 1 | PC UL94 V0              |
| Material - Plug housing interface 2 | PC UL94 V0              |
| Material - Contact interface 1      | Ph-Br (phosphor bronze) |



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### Technical Data

#### Materials and material properties

|                                       |                         |
|---------------------------------------|-------------------------|
| Material - Contact interface 2        | Ph-Br (phosphor bronze) |
| Material - Contact finish interface 1 | Ni + Au (nickel-gold)   |
| Material - Contact finish interface 2 | Ni + Au (nickel-gold)   |
| Flame retardancy                      | yes                     |
| Halogen free                          | yes                     |
| Oil resistance                        | yes                     |
| RoHS                                  | compliant               |

#### Environmental conditions

|                               |                                                                                                                                                                                                         |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature (min. - max.)     |                                                                                                                                                                                                         |
| Temperature - Operating °C    | -20 °C - 60 °C                                                                                                                                                                                          |
| Temperature - Operating °F    | -4 °F - 140 °F                                                                                                                                                                                          |
| Temperature - Installation °C | 50 °C                                                                                                                                                                                                   |
| Temperature - Installation °F | 122 °F                                                                                                                                                                                                  |
| General information           | This product is suitable for use in industrial environments inside buildings with IPxy protection class according to DIN EN 60529 specified in this data sheet. Not specified for outdoor applications. |

#### Standards/Regulations

|                                                                          |             |
|--------------------------------------------------------------------------|-------------|
| Test for vertical flame propagation for a single insulated wire or cable | IEC 60332-1 |
| Measurement of smoke density of cables burning                           | IEC 61034   |
| Determination of acidity (by measuring the pH value) and conductivity    | IEC 60754-2 |

#### Classifications

|          |          |
|----------|----------|
| ETIM 5.0 | EC001262 |
| ETIM 6.0 | EC001262 |
| ETIM 7.0 | EC002599 |
| ETIM 8.0 | EC002599 |
| ETIM 9.0 | EC002599 |



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### Packing details

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



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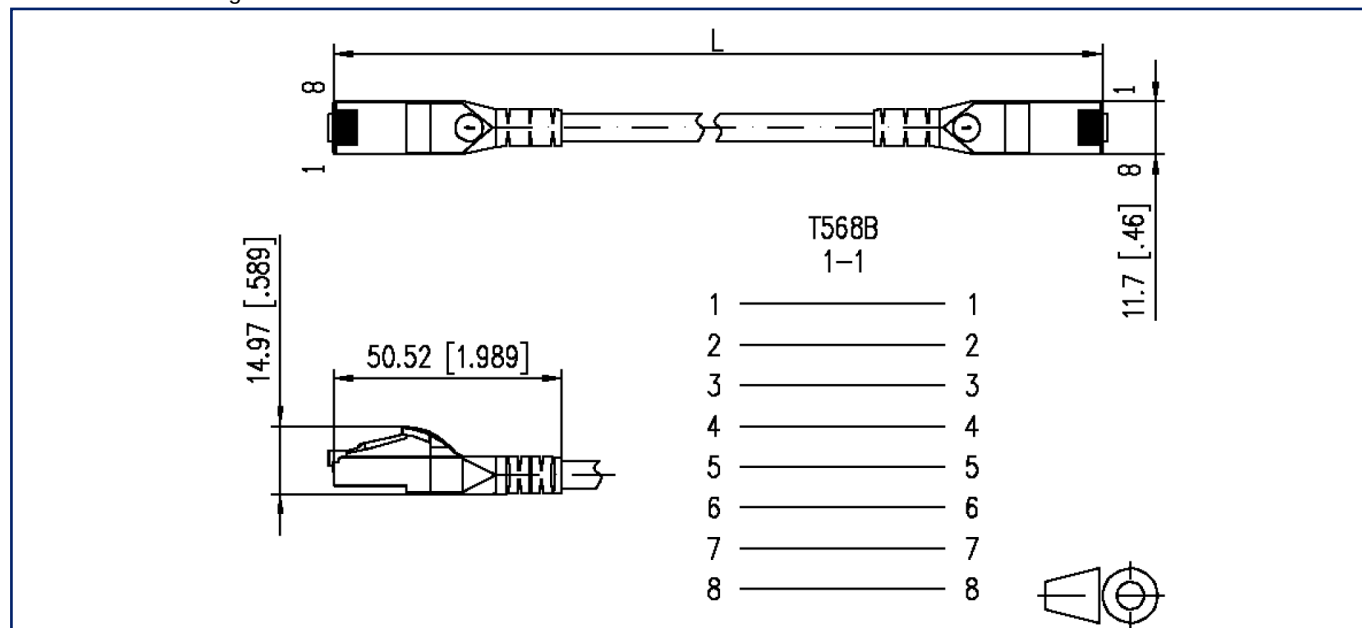
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