

# Data sheet

Patch cord Cat.6<sub>A</sub> AWG 27, 5.0 m yellow, cULus

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P/N

13084C5077-E

EAN 4250184153429

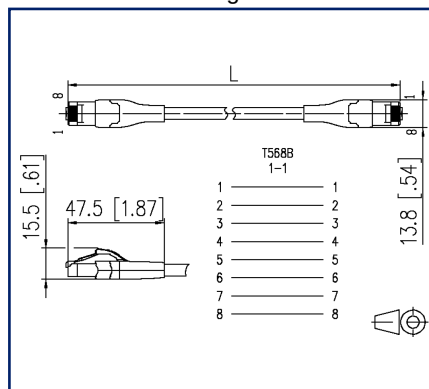
2026/08/26

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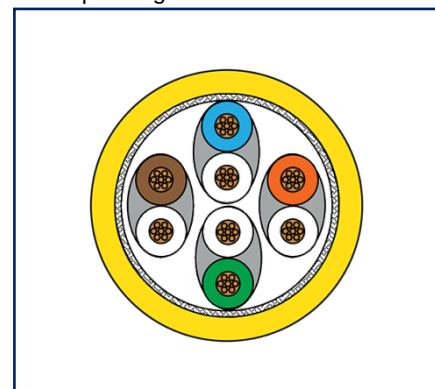
## Illustrations



Dimensional drawing



Principle diagram



See enlarged drawings at the end of document

## Product specification

- especially suitable for shielded and unshielded class E<sub>A</sub> systems
- cULus listed / DUXR.E178484
- fully shielded Cat.6<sub>A</sub> patch cord AWG 27/7
- two shielded RJ45 connectors, 1:1 assignment
- cable type: S/FTP 4x2xAWG 27/7 PIMF
- cable sheath: LSHF (LSOH), halogen free
- component testing for Cat.6<sub>A</sub> acc. to ISO/IEC 11801-1 and IEC 61935-2
- class E<sub>A</sub> Link up to 500 MHz to ISO/IEC 11801-1, DIN EN 50173-1
- suitable for 10 GBit Ethernet (IEEE 802.3an) and Remote Powering (PoE, PoE plus, UPoE) and HDBaseT
- snagless boot with integrated lever protection
- colors may differ slightly due to different protection lots



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## Technical Data

### General Data

|                                               |                                                                                                         |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Fields of application                         | structured building cabling<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 coding fiber/ wire(s)                   | white, orange, white, green, white, brown, white, blue                                                  |
| Color                                         | yellow                                                                                                  |
| Dimensions                                    |                                                                                                         |
| Dimension - Interface 1 (L x W x H)           | 47.5 mm x 13.8 mm x 15.5 mm                                                                             |
| Dimension - Interface 1 (L x W x H)           | 1.87 in. x 0.543 in. x 0.61 in.                                                                         |
| Dimension - Interface 2 (L x W x H)           | 47.5 mm x 13.8 mm x 15.5 mm                                                                             |
| Dimension - Interface 2 (L x W x H)           | 1.87 in. x 0.543 in. x 0.61 in.                                                                         |
| Cable length (m)                              | 5 m                                                                                                     |
| Cable length (ft)                             | 16.4 ft                                                                                                 |
| Weight                                        | 41 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 27/7              |
| Conductor cross section, stranded wire          | 0.111 mm <sup>2</sup> |
| Conductor diameter, stranded wire (bare copper) | 0.457 mm              |
| Conductor diameter, stranded wire (bare copper) | 0.018 in.             |
| Cable sheath diameter (min. - max.)             |                       |
| Cable sheath diameter                           | 6 mm                  |
| Cable sheath diameter                           | 0.236 in.             |
| Copper index                                    | 18 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. 100 MOhm |
| Transfer impedance 10 MHz  | 5 mOhm/m      |



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### Electrical characteristics

|                                                     |               |
|-----------------------------------------------------|---------------|
| Characteristic impedance 1-100 MHz                  | 100 Ohm       |
| Coupling attenuation                                | 80 dB         |
| Signal propagation delay                            | 440 ns/100 m  |
| Delay skew                                          | 2.5 ns/100 m  |
| Dielectric strength conductor-conductor (primarily) | max. 500 V DC |
| Dielectric strength conductor-conductor (secondary) | max. 500 V DC |

### Mechanical data

|                                                              |              |
|--------------------------------------------------------------|--------------|
| Tensile force                                                | 40 N         |
| Fire load                                                    | 350 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 |
| Maximum operating bending radius                             | 31.5 mm      |

### Materials and material properties

|                                         |                                               |
|-----------------------------------------|-----------------------------------------------|
| Cable                                   |                                               |
| Material - Conductor                    | Cu (copper)                                   |
| Material - Conductor Insulation         | Polyethylene                                  |
| Material - Cable jacket                 | LSHF (LSOH)                                   |
| Flame retardancy                        | according to IEC 60332-3-24 and UL 2556 (FT1) |
| Interface 1                             |                                               |
| Material - Plug housing interface 1     | PC (polycarbonate)                            |
| Material - Body interface 1             | Plastics                                      |
| Material - Contact interface 1          | CuSn                                          |
| Material - Contact finish interface 1   | Au (gold)                                     |
| Material - Contact carriers interface 1 | Plastics                                      |
| Material - Shield interface 1           | CuZn                                          |
| Material - Shield finish interface 1    | Ni (nickel)                                   |



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### Materials and material properties

#### Interface 2

|                                         |                    |
|-----------------------------------------|--------------------|
| Material - Plug housing interface 2     | PC (polycarbonate) |
| Material - Body interface 2             | Plastics           |
| Material - Contact interface 2          | CuSn               |
| Material - Contact finish interface 2   | Au (gold)          |
| Material - Contact carriers interface 2 | Plastics           |
| Material - Shield interface 2           | CuZn               |
| Material - Shield finish interface 2    | Ni (nickel)        |
| Material - Pair shield                  | plastic film       |
| Material - Pair shield finish           | Al (Aluminium)     |
| Material - Main shield                  | Cu (copper) braid  |
| Material - Main shield finish           | Sn                 |
| 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 |

### Approvals

UL listed (file no.)



DUXR.E178484

UL 444

compliant



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### Standards/Regulations

#### Generic cabling systems

|                      |                                                      |
|----------------------|------------------------------------------------------|
| General requirements | ISO/IEC 11801-1   DIN EN 50173-1<br>ANSI/TIA-568.2-D |
| Office buildings     | ISO/IEC 11801-2   DIN EN 50173-2<br>ANSI/TIA-568.2-D |
| Industrial area      | ISO/IEC 11801-3   DIN EN 50173-3<br>ANSI/TIA-1005-A  |
| Living units         | ISO/IEC 11801-4   DIN EN 50173-4<br>ANSI/TIA-570-D   |
| Data centers         | ISO/IEC 11801-5   DIN EN 50173-5<br>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 |
|-----------------------------------------------------------|-------------|

### Classifications

|           |          |
|-----------|----------|
| ETIM 7.0  | EC001262 |
| ETIM 8.0  | EC001262 |
| ETIM 9.0  | EC001262 |
| ETIM 10.0 | EC001262 |

### Packing details

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

### Application note

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way.



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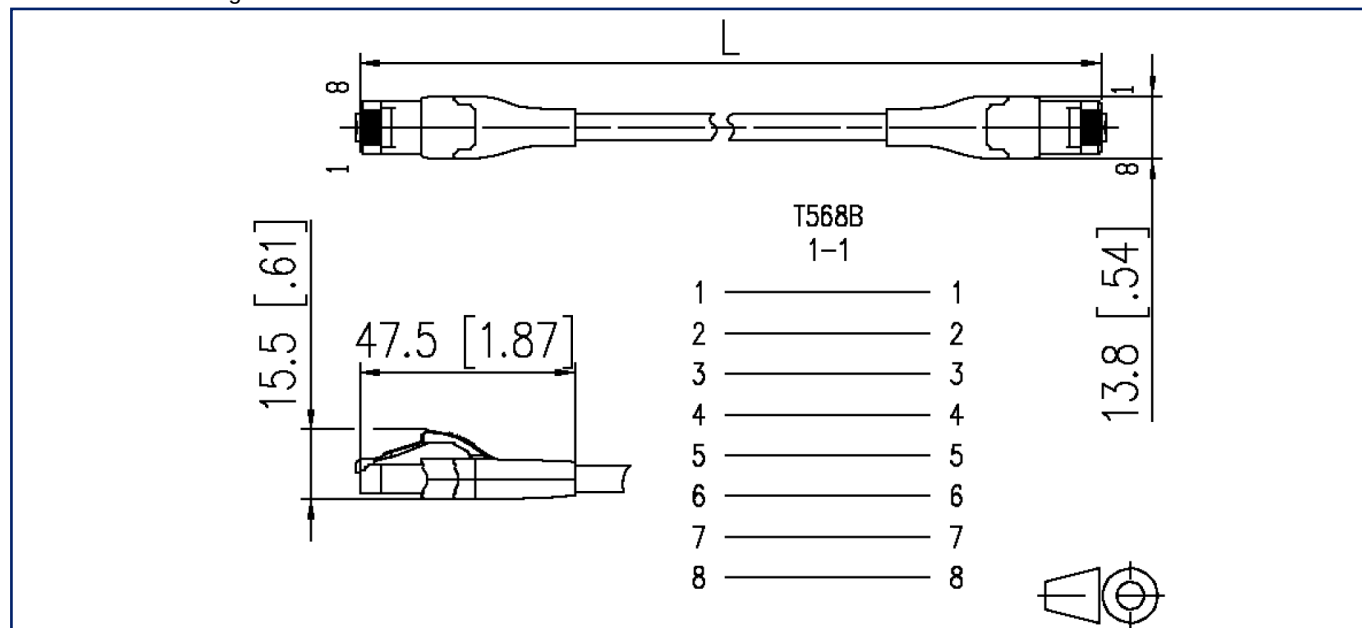
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## Illustrations

### Dimensional drawing



### Principle diagram

