

# P | Cabling

## Data sheet

Patch cord Cat.6<sub>A</sub> AWG 27, 3.0 m red, cULus

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P/N

13084C3066-E

EAN 4251122198540

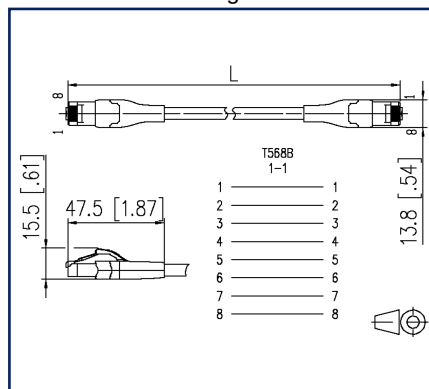
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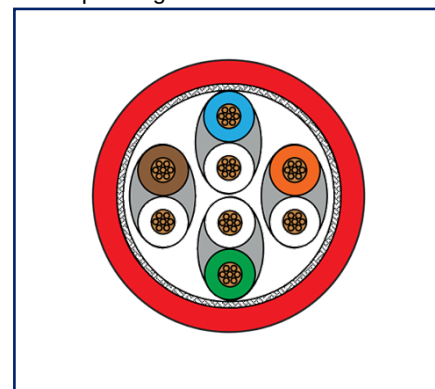
## Illustrations



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                                         | red                                                                                                     |
| 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)                              | 3 m                                                                                                     |
| Cable length (ft)                             | 9.84 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

|                                                     |               |
|-----------------------------------------------------|---------------|
| 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

|                                         |                    |
|-----------------------------------------|--------------------|
| Material - Conductor                    | Cu (copper)        |
| Material - Conductor Insulation         | Polyethylene       |
| Material - Cable jacket                 | LSHF (LSOH)        |
| Material - Plug housing interface 1     | PC (polycarbonate) |
| Material - Plug housing interface 2     | PC (polycarbonate) |
| Material - Body interface 1             | Plastics           |
| Material - Body interface 2             | Plastics           |
| 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           | CuZn               |
| Material - Shield interface 2           | CuZn               |
| Material - Shield finish interface 1    | Ni (nickel)        |
| Material - Shield finish interface 2    | Ni (nickel)        |
| Material - Pair shield                  | plastic film       |



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### Materials and material properties

|                               |                   |
|-------------------------------|-------------------|
| Material - Pair shield finish | Al (Aluminium)    |
| Material - Main shield        | Cu (copper) braid |
| Material - Main shield finish | Sn (tin)          |
| Halogen free                  | yes               |
| 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                                                                                         |

### 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                                       |



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### Standards/Regulations

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 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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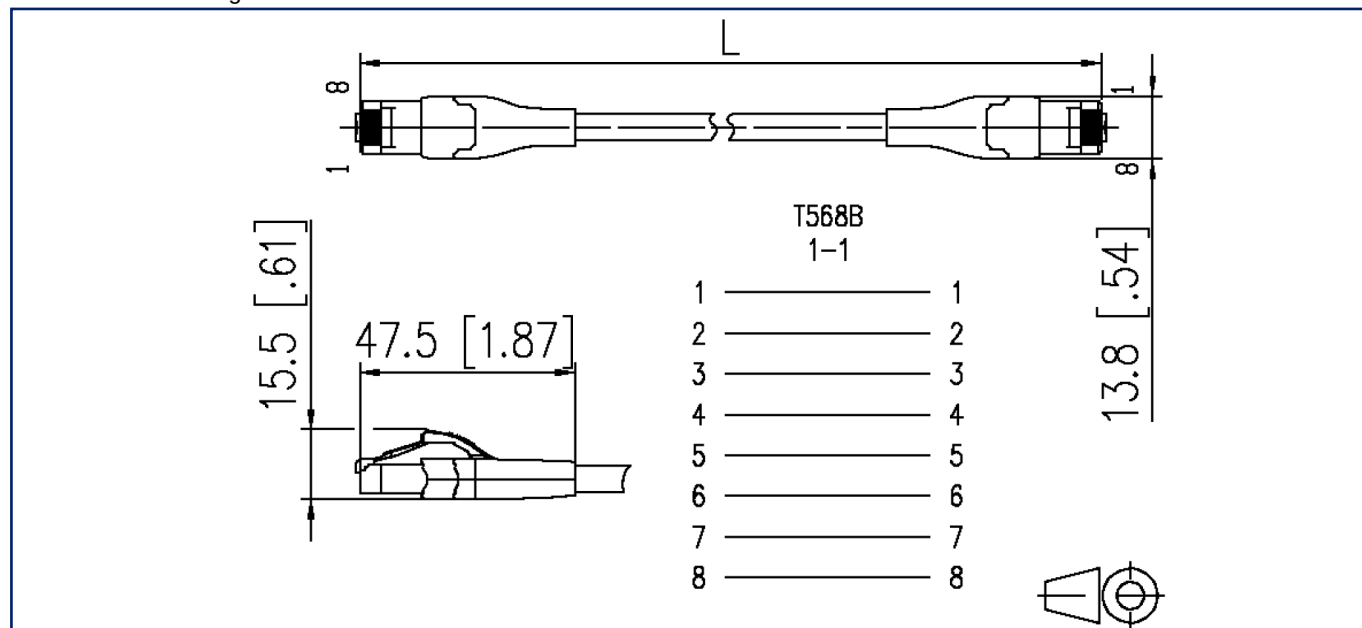
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## Illustrations

Dimensional drawing



Principle diagram

