

# Data sheet

## E-DAT C6<sub>A</sub> 6 port for 1RU inlet

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P/N

860018-11C-E

EAN 4250184118619

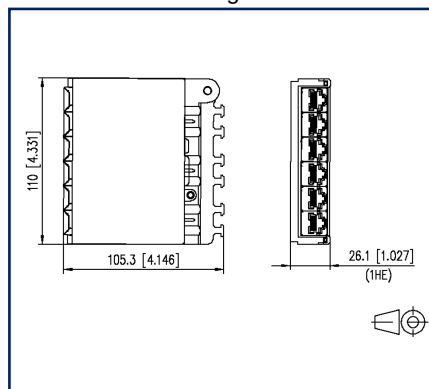
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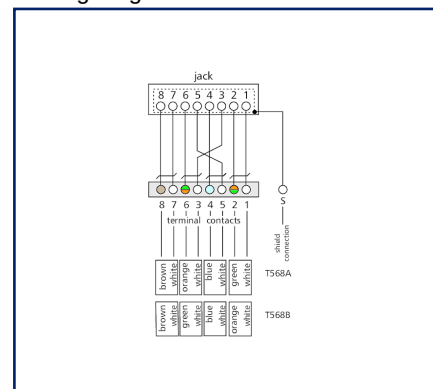
### Illustrations



Dimensional drawing



Wiring diagram



See enlarged drawings at the end of document

### Product specification

- module for mounting in top hat rail adapter, empty housing for surface mounting or 1RU assembly frame
- Cat.6<sub>A</sub> component test according to ISO/IEC 11801, DIN EN 50173-1, ANSI/TIA-568.2-D and IEC 60603-7-51, GHMT certified
- compliance with class E<sub>A</sub> up to 500 MHz according to ISO/IEC 11801, DIN EN 50173-1
- tested: components up to 600 MHz, link up to 800 MHz
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus, UPoE and 4PPoE) and HDBaseT
- wire pairs can be led to the LSA terminal without untwisting the pair
- connection of 2 to 4-pair data lines to LSA insulation displacement connectors (AWG 26/1-22/1) conductor colors marking to T568A
- optional strain relief using cable ties
- incl. 30 cm grounding cable
- optional strain relief using cable ties
- grounding bolt M6 x 10 with nut and lock washer



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### Technical Data

#### General Data

|                                               |                                                                                             |
|-----------------------------------------------|---------------------------------------------------------------------------------------------|
| Fields of application                         | structured building cabling<br>office areas<br>Distributed building services<br>data center |
| 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 panel                                                                                 |
| Mounting style                                | for 1RU                                                                                     |
| Shielding                                     | shielded                                                                                    |
| Transmission technology                       | Copper                                                                                      |
| Wiring                                        | T568A, T568B                                                                                |
| Color                                         | gray                                                                                        |
| Dimensions                                    |                                                                                             |
| Dimension (L x W x H)                         | 105.3 mm x 110 mm x 26.1 mm                                                                 |
| Dimension (L x W x H)                         | 4.146 in. x 4.331 in. x 1.028 in.                                                           |
| Height unit                                   | for 1RU                                                                                     |

#### 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   |
| PoE plus                                         | IEEE 802.3at   |
| UPoE                                             | yes            |
| 4PPoE                                            | IEEE 802.3bt   |
| HDBaseT                                          | yes            |
| Transmission rate up to 100 MBit (Fast Ethernet) | IEEE 802.3bw   |
| Transmission rate up to 1 GBit (Fast Ethernet)   | IEEE 902.3ab   |
| Transmission rate up to 10 GBit                  | IEEE 802.3an   |

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## Technical Data

### Connections/interfaces

|                                              |                                               |
|----------------------------------------------|-----------------------------------------------|
| Connector technology interface 1             | LSA terminal block                            |
| Connector technology interface 2             | RJ45-jack                                     |
| Number of ports interface 2                  | 6                                             |
| Number of ports interface 2 equipped         | 6                                             |
| Number of positions/contacts interface 1     | 6 x 8                                         |
| Number of positions/contacts interface 2     | 6 x 8P/8C                                     |
| Termination data, solid wire (min. - max.)   |                                               |
| Conductor cross section, solid wire          | AWG 26/1 - AWG 22/1                           |
| Conductor cross section, solid wire          | 0.128 mm <sup>2</sup> - 0.324 mm <sup>2</sup> |
| Conductor diameter, solid wire (bare copper) | 0.409 mm - 0.643 mm                           |
| Conductor diameter, solid wire (bare copper) | 0.016 in. - 0.025 in.                         |
| Cable access/outlet                          | 180°                                          |
| Shield connection                            | flexible contact spring                       |

### Electrical characteristics

|                                                                 |                   |
|-----------------------------------------------------------------|-------------------|
| Current carrying capacity                                       | max. 1 A at 60 °C |
| Rated voltage                                                   | max. 60 V DC      |
| Contact resistance                                              | max. 20 mOhm      |
| Through resistance                                              | max. 200 mOhm     |
| Insulation resistance                                           | min. 500 MOhm     |
| Dielectric strength conductor-conductor (secondary)             | max. 1000 V DC    |
| Dielectric strength conductor-conductor, peak value (secondary) | max. 1.000 V AC   |
| Dielectric strength conductor-shield                            | max. 1500 V DC    |
| Dielectric strength conductor-shield, peak value                | max. 1500 V AC    |

### Mechanical data

|                                                              |               |
|--------------------------------------------------------------|---------------|
| Insertion and withdrawal force                               | max. 30 N     |
| Life - Number of mating cycles                               | min. 750      |
| Position/mounting of latch<br>standard installation position | top           |
| strain relief                                                | cable bracket |



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### Technical Data

#### Materials and material properties

|                                          |                                  |
|------------------------------------------|----------------------------------|
| Material - Terminal block housing        | PBT (polybutylene terephthalate) |
| Material - Jack contact                  | Hyper Ph-Br                      |
| Material - Jack contact finish           | AuCo                             |
| Material - Terminal block contact        | CuSn6                            |
| Material - Terminal block contact finish | Sn                               |
| Material - Jack shield                   | CuSn6                            |
| Material - Cover                         | GD-Zn                            |
| Halogen free                             | yes                              |
| RoHS                                     | compliant                        |

#### Environmental conditions

|                            |                 |
|----------------------------|-----------------|
| Temperature (min. - max.)  |                 |
| Temperature - Storage °C   | -40 °C - 70 °C  |
| Temperature - Storage °F   | -40 °F - 158 °F |
| Temperature - Operating °C | -40 °C - 70 °C  |
| Temperature - Operating °F | -40 °F - 158 °F |

#### Certifications

|                    |                                                                                     |           |
|--------------------|-------------------------------------------------------------------------------------|-----------|
| GHMT Type Approval |  | Component |
|--------------------|-------------------------------------------------------------------------------------|-----------|

#### Standards/Regulations

|                         |                                                                      |
|-------------------------|----------------------------------------------------------------------|
| Generic cabling systems |                                                                      |
| General requirements    | ISO/IEC 11801-1:2017-11   DIN EN 50173-1:2018-10<br>ANSI/TIA-568.2-D |
| Office buildings        | ISO/IEC 11801-2:2017-11   DIN EN 50173-2:2018-10<br>ANSI/TIA-568.2-D |
| Living units            | ISO/IEC 11801-4:2017-11   DIN EN 50173-4:2018-10<br>ANSI/TIA-570-D   |
| Data centers            | ISO/IEC 11801-5:2017-11   DIN EN 50173-5:2018-10<br>ANSI/TIA-942-B   |

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### Technical Data

#### Standards/Regulations

Connectors for electronic equipment

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Free and fixed connectors | DIN EN 60603-7-51:2011-01, DIN EN 60603-7:2019-11, DIN EN 60603-7-1:2012-01 |
|---------------------------|-----------------------------------------------------------------------------|

Connectors for electronic equipment - Tests and measurements

|                                                                                         |                                          |
|-----------------------------------------------------------------------------------------|------------------------------------------|
| Test standard for connectors (engaging and separating connectors under electrical load) | DIN-EN 60512-99-001, DIN-EN 60512-99-002 |
|-----------------------------------------------------------------------------------------|------------------------------------------|

|                 |                                                  |
|-----------------|--------------------------------------------------|
| Endurance tests | DIN EN 60603-7:2019-11, DIN EN 60603-7-1:2012-01 |
|-----------------|--------------------------------------------------|

|               |                                                  |
|---------------|--------------------------------------------------|
| Climate tests | DIN EN 60603-7:2019-11, DIN EN 60603-7-1:2012-01 |
|---------------|--------------------------------------------------|

#### Classifications

|           |          |
|-----------|----------|
| ETIM 7.0  | EC001128 |
| ETIM 8.0  | EC001128 |
| ETIM 9.0  | EC001128 |
| ETIM 10.0 | EC001128 |

#### Packing details

|                   |               |
|-------------------|---------------|
| Type of packaging | 1 pc(s) / box |
|-------------------|---------------|

#### 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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## Accessories

| P/N         | Designation                                    |
|-------------|------------------------------------------------|
| 130862-00-E | Module housing 6x8 surface mounted, gray       |
| 130862-20-E | Module housing 6x8 surface mounted, pure white |

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### Accessories from

| P/N          | Designation                                        |
|--------------|----------------------------------------------------|
| 1308990110-E | DIN rail adapter                                   |
| 130B10E2-E   | Module frame 3RU, 7HP 6 port, aluminum, unequipped |
| 854544-E     | Module frame 1RU 19 inches, unequipped             |
| 854568-E     | Module frame 10 inches 1RU                         |



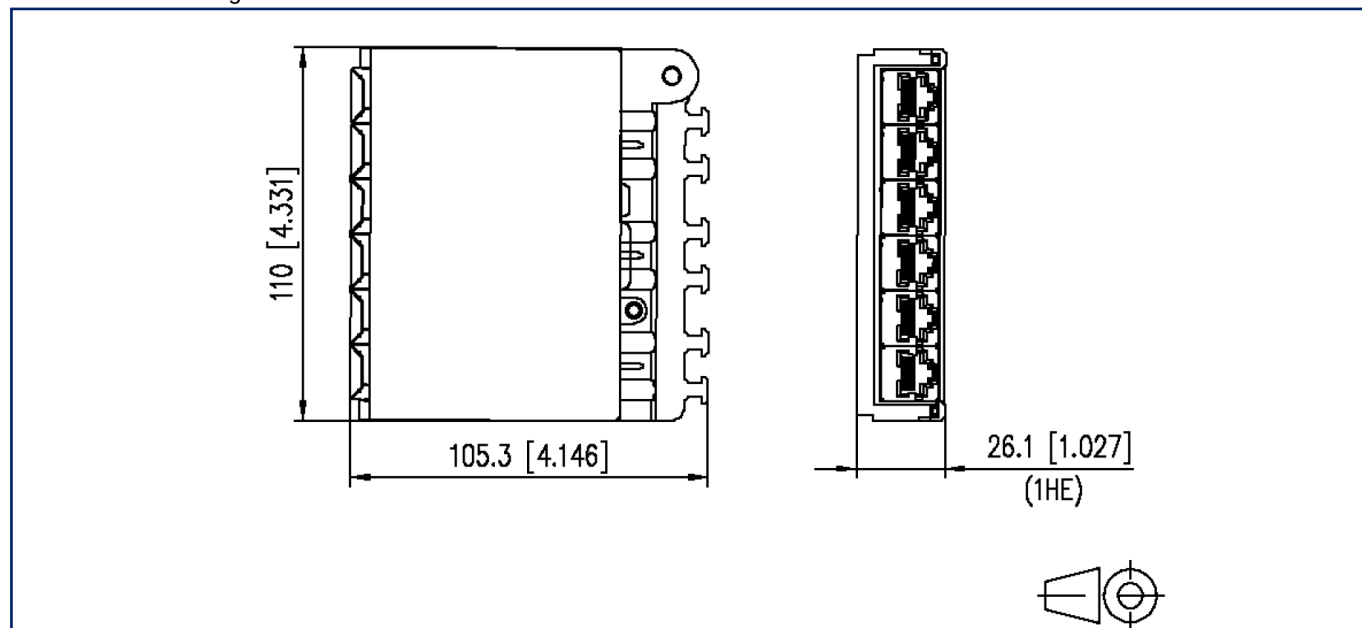
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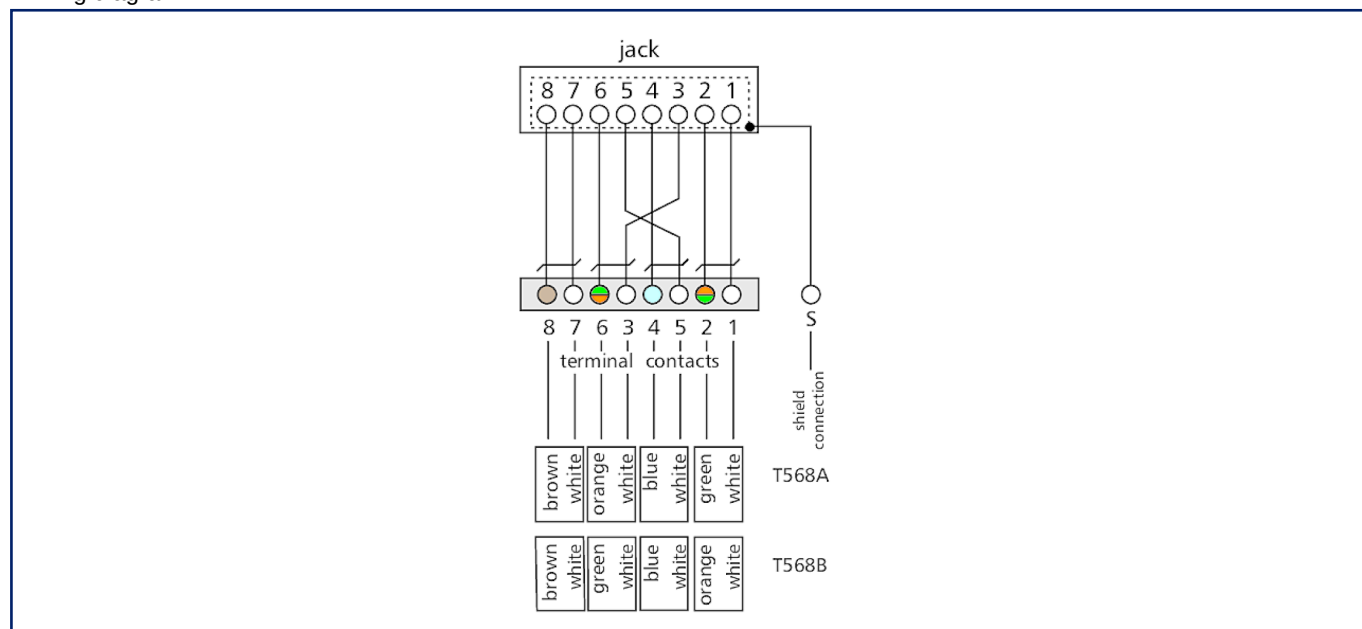
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## Illustrations

Dimensional drawing



Wiring diagram



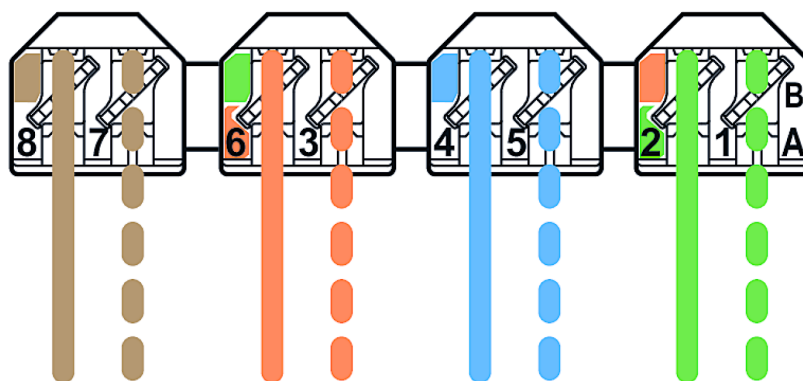
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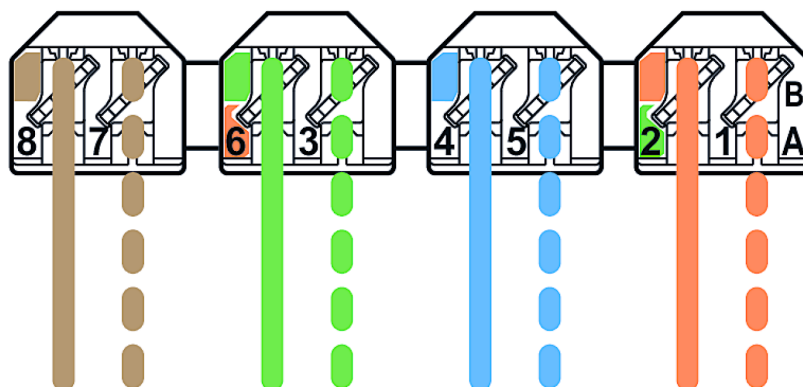
## Illustrations

Wiring diagram



T568A

Wiring diagram



T568B

