

## Data sheet

### C6<sub>A</sub>modul 270° jack

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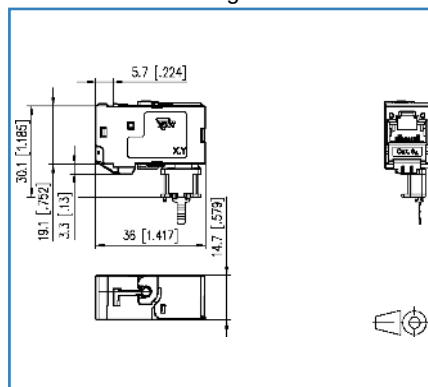
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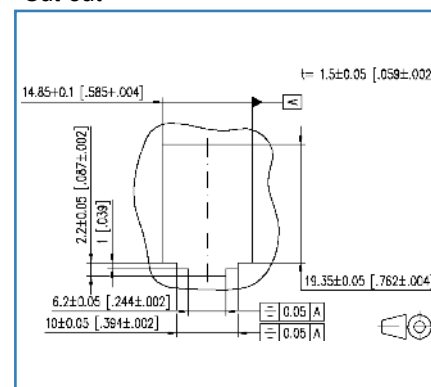
## Illustrations



Dimensional drawing



Cut-out



See enlarged drawings at the end of document



## Product specification

- modular Cat.6<sub>A</sub> termination unit RJ45
- mounting version: module, 270° cable feed
- solid, one-piece and reusable module housing refined with zinc die-casting
- mounting without special tools; strain relief directly snapped on to stuffer cap
- easy to install connection of data lines AWG 26/1 to 22/1 (solid wire) and AWG 26/7 to 22/7 (stranded wire) to insulation displacement connectors (IDC)
- intelligent cable management in stuffer cap - also suitable for heavily twisted cables
- conductor assignment to T568A and T568B is directly printed on the stuffer cap
- certified to GHMT Cat.6<sub>A</sub> re-embedded PVP
- component testing for Cat.6<sub>A</sub> to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09, TIA/EIA-568-C.2 (2009-08) and IEC 60603-7-51 Ed.1 (12/2008), certified to GHMT
- compliance with class E<sub>A</sub> up to 500 MHz to ISO/IEC 11801 Ed.2.2:2011-06, DIN EN 50173-1:2011-09
- tested: component up to 600 MHz, link up to 800 MHz
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and HDBaseT

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### Technical Data

#### General Data

|                         |                           |
|-------------------------|---------------------------|
| Fields of application   |                           |
| Design                  | Office                    |
| Shielding               | shielded                  |
| Transmission technology | Copper                    |
| Wiring                  | T568A, T568B              |
| Color                   | metallike                 |
| Dimensions              |                           |
| Dimension (L x W x H)   | 36.00 x 14.7 x 30.10 mm   |
| Dimension (L x W x H)   | 1.417 x 0.579 x 1.185 in. |
| Modularity              | yes                       |
| Field assembly ability  | yes                       |
| Labeling option         | on housing                |
| Marking option          | by latching clip          |

#### 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            |
| HDBaseT                         | yes            |
| Transmission rate up to 10 GBit | IEEE 802.3an   |

#### Connections/interfaces

|                                          |                |
|------------------------------------------|----------------|
| Connector technology interface 1         | IDC-connection |
| Connector technology interface 2         | RJ45-jack      |
| Number of ports interface 2              | 1              |
| Number of ports interface 2 equipped     | 1              |
| Number of positions/contacts interface 1 | 8              |
| Number of positions/contacts interface 2 | 8P/8C          |



### Technical Data

#### Connections/interfaces

Termination data, solid wire (min. - max.)

|                                              |                               |
|----------------------------------------------|-------------------------------|
| Conductor cross section, solid wire          | AWG 26/1 - 22/1               |
| Conductor cross section, solid wire          | 0.128 - 0.324 mm <sup>2</sup> |
| Conductor diameter, solid wire (bare copper) | 0.409 - 0.643 mm              |
| Conductor diameter, solid wire (bare copper) | 0.016 - 0.025 in.             |

Termination data, stranded wire (min. - max.)

|                                                 |                               |
|-------------------------------------------------|-------------------------------|
| Conductor cross section, stranded wire          | AWG 26/7 - 22/7               |
| Conductor cross section, stranded wire          | 0.141 - 0.355 mm <sup>2</sup> |
| Conductor diameter, stranded wire (bare copper) | 0.483 - 0.762 mm              |
| Conductor diameter, stranded wire (bare copper) | 0.019 - 0.030 in.             |

Cable access/outlet 270°

#### Electrical characteristics

|                                                     |                |
|-----------------------------------------------------|----------------|
| Current carrying capacity                           | max. 1 A       |
| Rated voltage                                       | max. 50 V      |
| Contact resistance                                  | max. 20 mOhm   |
| Through resistance                                  | max. 200 mOhm  |
| Insulation resistance                               | min. 500 MOhm  |
| Dielectric strength conductor-conductor (secondary) | max. 1000 V DC |

#### Mechanical characteristics

|                                                             |                  |
|-------------------------------------------------------------|------------------|
| Cut-out                                                     | Modul            |
| Mounting method                                             | snap-in function |
| Insertion and withdrawal force                              | max. 30 N        |
| Position/mounting of latch - standard installation position | top              |
| Strain relief                                               | latching clip    |

#### Materials and material properties

|                           |                       |
|---------------------------|-----------------------|
| Material - Housing        | GD-Zn (zinc die-cast) |
| Material - Contact        | Spring steel          |
| Material - Contact finish | Au (gold)             |
| Material - Shield         | GD-Zn (zinc die-cast) |
| Material - Stuffer cap    | PA 6.6 UL94 V0        |
| Material - Strain relief  | PA 6.6 UL94 V0        |



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## Technical Data

### Materials and material properties

|                   |             |
|-------------------|-------------|
| Material - Finish | Ni (nickel) |
|-------------------|-------------|

### Environmental conditions

|                             |                                                    |
|-----------------------------|----------------------------------------------------|
| Rapid change of temperature | -40°C / -40°F - +70°C / 158°F / 25 cycles t=30 min |
| Electromagnetic measurement | E <sub>2</sub>                                     |

### Certifications

GHMT PVP



|                               |            |
|-------------------------------|------------|
| GHMT PVP - Period of validity | 28.02.2017 |
|-------------------------------|------------|

### Approvals

|                      |              |
|----------------------|--------------|
| CE                   | compliant    |
| RoHS                 | compliant    |
| UL listed (file no.) | DUXR.E178484 |



### The product meets the following standards

|                                                              |                                                                          |
|--------------------------------------------------------------|--------------------------------------------------------------------------|
| Generic cabling systems                                      |                                                                          |
| General requirements                                         | ISO/IEC 11801 Ed.2.2: 2011-06   DIN EN 50173-1: 2011-09<br>TIA/EIA 568-C |
| Office buildings                                             | ISO/IEC 11801 Ed.2.2: 2011-06   DIN EN 50173-2: 2011-09<br>TIA/EIA 568-C |
| Living units                                                 | ISO/IEC 15018   DIN EN 50173-4: 2011-09<br>TIA/EIA 570-B                 |
| Connectors for electronic equipment                          |                                                                          |
| Free and fixed connectors                                    | DIN EN 60603-7-51:2011-01                                                |
| Connectors for electronic equipment - Tests and measurements |                                                                          |
| Test schedule for connectors                                 | DIN-EN 60512-99-001: 02-2013, Pg. UEL1                                   |
| Endurance tests                                              | IEC 60512-9-3: 03-2009                                                   |



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## Technical Data

### The product meets the following standards

#### Interference proof

|                                      |                          |
|--------------------------------------|--------------------------|
| Immunity for industrial environments | DIN EN 61000-6-2:2006-03 |
|--------------------------------------|--------------------------|

#### Emission proof

|                                                                                        |                          |
|----------------------------------------------------------------------------------------|--------------------------|
| Electromagnetic emission for residential, commercial and light-industrial environments | DIN EN 61000-6-3:2011-09 |
|----------------------------------------------------------------------------------------|--------------------------|

#### Climate tests

IEC 60512-11

### Classifications

|          |          |
|----------|----------|
| ETIM 5.0 | EC001121 |
|----------|----------|

|          |          |
|----------|----------|
| ETIM 6.0 | EC001121 |
|----------|----------|

### Packing details

|                   |                |
|-------------------|----------------|
| Type of packaging | 10 pc(s) / box |
|-------------------|----------------|

|                                |          |
|--------------------------------|----------|
| Packaging unit - Weight (gram) | 420.00 g |
|--------------------------------|----------|

|                                 |         |
|---------------------------------|---------|
| Packaging unit - Weight (pound) | 0.93 lb |
|---------------------------------|---------|

|                                 |                            |
|---------------------------------|----------------------------|
| Packaging dimension (W x H x D) | 247.00 x 161.00 x 58.00 mm |
|---------------------------------|----------------------------|

|                                 |                           |
|---------------------------------|---------------------------|
| Packaging dimension (W x H x D) | 9.724 x 6.339 x 2.283 in. |
|---------------------------------|---------------------------|



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**Accessories**

| P/N           | Designation                                                |
|---------------|------------------------------------------------------------|
| 820032-0129-I | Dust protection cover for C6 <sub>A</sub> modul black      |
| 820032-0103-I | Dust protection cover for C6 <sub>A</sub> modul light gray |
| 820032-0105-I | Dust protection cover for C6 <sub>A</sub> modul yellow     |
| 820032-0106-I | Dust protection cover for C6 <sub>A</sub> modul blue       |
| 820032-0107-I | Dust protection cover for C6 <sub>A</sub> modul green      |
| 820032-0108-I | Dust protection cover for C6 <sub>A</sub> modul red        |
| 820032-0102-I | Dust protection cover for C6 <sub>A</sub> modul pure white |



# P | Cabling

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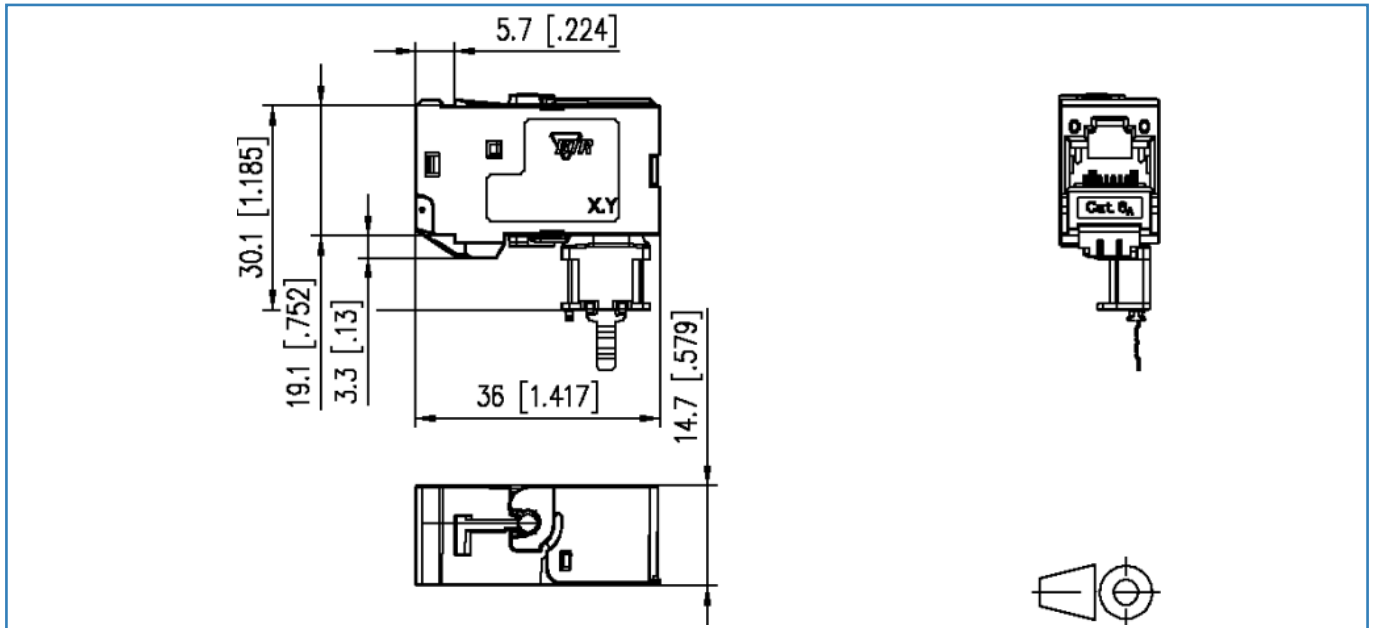
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