

# P | Cabling

## Data sheet

### E-DAT Industry IP67 V6 plug

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P/N

130906-03-E

EAN 4250184105381

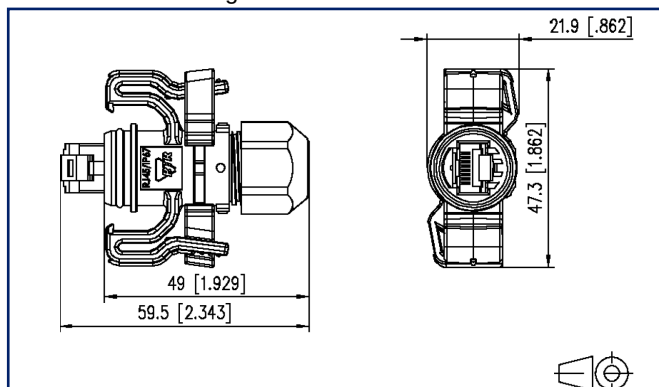
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## Illustrations



Dimensional drawing



See enlarged drawings at the end of document

## Product specification

- Cat.6 class E<sub>A</sub> plug in plug housing according to standard IEC 61076-3-106 Var. 6
- compliance with class E<sub>A</sub> according to ISO/IEC 11801, DIN EN 50173-1
- suitable for 10 GBit Ethernet(IEEE 802.3an) and Remote Powering(PoE, PoE plus and UPoE) and HDBaseT
- complies with ingress protection IP67 when plugged in
- AWG 27/7 - 24/7 and AWG 24/1 connection possible
- solid copper wire diameter from 0.36 to 0.51 mm
- stranded copper wire diameter from 0.46 to 0.61 mm
- conductor diameter from 0.85 to 1.05 mm
- cable jacket diameter 5.5 to 6.2 mm can be connected
- large 360° shield contact
- locking clip can also be upgraded in its installed state
- protected against unintentional opening by means of locking clip (also colored)
- crimping of the internal and external conductors with professional crimp pliers in one process
- professional crimping tool available in the tools section



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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                                        | plug                              |
| Transmission technology                       | Copper                            |
| Color                                         | light gray                        |
| Dimensions                                    |                                   |
| Dimension (L x W x H)                         | 59.5 mm x 47.3 mm x 21.9 mm       |
| Dimension (L x W x H)                         | 2.343 in. x 1.862 in. x 0.862 in. |
| Labeling option                               | on housing                        |

### Transmission characteristics

|                                 |                |
|---------------------------------|----------------|
| Category (ISO)                  | 6              |
| Class (ISO/IEC)                 | E <sub>A</sub> |
| Category (TIA)                  | 6              |
| 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 plug      |
| 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          |
| Protective housing interface 1           | V6             |
| Protective housing interface 2           | V5             |



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### Technical Data

#### Connections/interfaces

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

|                                              |                       |
|----------------------------------------------|-----------------------|
| Conductor cross section, solid wire          | AWG 24/1              |
| Conductor cross section, solid wire          | 0.205 mm <sup>2</sup> |
| Conductor diameter, solid wire (bare copper) | 0.511 mm              |
| Conductor diameter, solid wire (bare copper) | 0.02 in.              |

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

|                                                 |                                               |
|-------------------------------------------------|-----------------------------------------------|
| Conductor cross section, stranded wire          | AWG 27/7 - AWG 24/7                           |
| Conductor cross section, stranded wire          | 0.111 mm <sup>2</sup> - 0.227 mm <sup>2</sup> |
| Conductor diameter, stranded wire (bare copper) | 0.457 mm - 0.61 mm                            |
| Conductor diameter, stranded wire (bare copper) | 0.018 in. - 0.024 in.                         |

Aderdurchmesser (min.-max.)

|                                           |                      |
|-------------------------------------------|----------------------|
| Core diameter (conductor with insulation) | 0.85 mm - 1.02 mm    |
| Core diameter (conductor with insulation) | 0.033 in. - 0.04 in. |

Cable sheath diameter (min. - max.)

|                       |                   |
|-----------------------|-------------------|
| Cable sheath diameter | 5.5 mm - 6.20     |
| Cable sheath diameter | 0.217 in. - 0.244 |

Cable access/outlet

180°

#### Electrical characteristics

|                                                     |                |
|-----------------------------------------------------|----------------|
| Contact resistance                                  | max. 20 mOhm   |
| Insulation resistance                               | min. 500 MOhm  |
| Dielectric strength conductor-conductor (secondary) | min. 1000 V DC |

#### Mechanical data

|                                     |               |
|-------------------------------------|---------------|
| Locking method (protective housing) | locking clamp |
|-------------------------------------|---------------|

#### Materials and material properties

|                                    |                                |
|------------------------------------|--------------------------------|
| Material - Housing                 | PC UL94 V0                     |
| Material - Protective housing      | PA 6.6 UL94 V0                 |
| Material - Contact                 | PhBr (phosphor bronze)         |
| Material - Contact finish          | Ni + Au (nickel-gold)          |
| Material - Shield                  | CuZn                           |
| Material - Shield finish           | Ni (nickel)                    |
| Material - Protective housing seal | NBR (nitrile butadiene rubber) |



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#### Materials and material properties

|                    |                                                                                        |
|--------------------|----------------------------------------------------------------------------------------|
| Material - Cap nut | PA UL94 V0                                                                             |
| Halogen free       | yes                                                                                    |
| Silicone free      | no paint wetting interfering substances (LaBS) in the process chain                    |
| LaBS Note          | subsequent contamination possible due to handling and possible storage in your company |
| RoHS               | compliant                                                                              |
| REACH              | 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                                                                                                                                                                                         |
| Particulate ingress        | IP6X with protective housing                                                                                                                                                                            |
| Liquid ingress/immersion   | IPX7 with protective housing                                                                                                                                                                            |
| 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. |

#### Approvals

UL listed (file no.)



DUXR.E178484

#### Standards/Regulations

|                         |                                                                  |
|-------------------------|------------------------------------------------------------------|
| Generic cabling systems |                                                                  |
| General requirements    | ANSI/TIA-568-C                                                   |
| Office buildings        | ISO/IEC 11801 Ed.2.2: 2011-06   DIN EN 50173-2<br>ANSI/TIA-568-C |
| Industrial area         | ISO/IEC 24702   DIN EN 50173-3<br>ANSI/TIA-1005                  |
| Living units            | ISO/IEC 15018   DIN EN 50173-4<br>ANSI/TIA-570-B                 |



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## Technical Data

### Standards/Regulations

Connectors for electronic equipment

|                        |                    |
|------------------------|--------------------|
| Rectangular connectors | DIN EN 61076-3-106 |
|------------------------|--------------------|

Connectors for electronic equipment - Tests and measurements

|                                              |           |
|----------------------------------------------|-----------|
| Degrees of Protection Provided by Enclosures | IEC 60529 |
|----------------------------------------------|-----------|

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

### Classifications

|          |          |
|----------|----------|
| ETIM 5.0 | EC000766 |
|----------|----------|

|          |          |
|----------|----------|
| ETIM 6.0 | EC000766 |
|----------|----------|

|          |          |
|----------|----------|
| ETIM 7.0 | EC001121 |
|----------|----------|

|          |          |
|----------|----------|
| ETIM 8.0 | EC001121 |
|----------|----------|

### Packing details

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

|                                |       |
|--------------------------------|-------|
| Packaging unit - Weight (gram) | 392 g |
|--------------------------------|-------|

|                                 |         |
|---------------------------------|---------|
| Packaging unit - Weight (pound) | 0.86 lb |
|---------------------------------|---------|

|                     |                          |
|---------------------|--------------------------|
| Packaging dimension | 160 mm x 100 mm x 380 mm |
|---------------------|--------------------------|

|                     |                                    |
|---------------------|------------------------------------|
| Packaging dimension | 6.299 in. x 3.937 in. x 14.961 in. |
|---------------------|------------------------------------|

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## Accessories

| P/N         | Designation                                    |
|-------------|------------------------------------------------|
| 130906-V3-I | Locking clamp for IP67 V6 plug, light gray     |
| 130906-V5-I | Locking clamp for IP67 V6 plug, yellow         |
| 130906-V6-I | Locking clamp for IP67 V6 plug, blue           |
| 130906-V7-I | Locking clamp for IP67 V6 plug, green          |
| 130906-V8-I | Locking clamp for IP67 V6 plug, red            |
| 130907-E    | Crimp pliers for E-DAT Industry IP20 RJ45 plug |

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