



## VDATA CAT6

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## Dimensions and weights

|            |       |                 |            |
|------------|-------|-----------------|------------|
| Depth      | 46 mm | Depth (inches)  | 1.811 inch |
| Height     | 75 mm | Height (inches) | 2.953 inch |
| Width      | 19 mm | Width (inches)  | 0.748 inch |
| Net weight | 137 g |                 |            |

## Temperatures

|                     |                            |                       |                |
|---------------------|----------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C             | Operating temperature | -40 °C...80 °C |
| Humidity            | 0...95 % (no condensation) |                       |                |

## Rated data UL

|                             |              |                             |             |
|-----------------------------|--------------|-----------------------------|-------------|
| Certificate No. (UL)        | E311081      | Rated Voltage $U_N$         | 48 V        |
| Voltage Breakdown (VDC) L-G | 72 V - 120 V | Voltage Breakdown (VDC) L-L | 53 V - 73 V |
| Voltage type                | DC           |                             |             |

## General data

|                    |                         |                   |  |
|--------------------|-------------------------|-------------------|--|
| Colour             | Silver grey             | Design            | miscellaneous, Adapter plug  |
| Operating altitude | ≤ 2000 m                | Protection degree | IP20   |
| Rail               | TS 35 x 15, TS 35 x 7.5 | Segment           | Data surge protection  |
| Suitable for       | RJ45 plug               | Version           | Cat.6, PoE, 802.3 bt at Type 1, 802.3 bt at Type 2, 802.3 bt at Type 3, 802.3 bt at Type 4 |

## Insulation coordination acc. to EN 50178

|                    |   |                        |     |
|--------------------|---|------------------------|-----|
| Pollution severity | 2 | Surge voltage category | III |
|--------------------|---|------------------------|-----|

## Rated data IEC / EN

|  |                     |  |                  |
|--|---------------------|--|------------------|
| Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE | 10 kA               | Discharge current $I_n$ (8/20 $\mu$ s) wire-PE     | 10 kA            |
| Discharge current, $I_{imp}$ (10/350 $\mu$ s)      | 1 kA                | Frequency range, max.                              | 250 MHz          |
| Insertion loss                                     | ≤ 1 dB @ 250 MHz    | Lightning test current, $I_{imp}$ (10/350 $\mu$ s) | 1 kA             |
| Max. continuous voltage, $U_c$ (AC)                | 48 V                | Wire-PE  | 1 kA             |
| Protection level, $U_p$ wire - PE                  | 550 V               | Max. continuous voltage, $U_c$ (DC)                | 50 V             |
| Rated current $I_N$                                | 1 A                 | Protection level, $U_p$ wire - wire                | 150 V            |
| Requirements category acc. to IEC 61643-21         | D1, C1, C2, C3      | Rated voltage (DC)                                 | 48 V             |
| Signal transmission properties (-3 dB)             | 250 kHz             | Response time                                      | < 1 ns           |
| Suitable for                                       | RJ45 plug           | Standards  | IEC 61643-21, UL |
| Surge current-carrying capacity D1                 | 1 kA 10/350 $\mu$ s | Surge current-carrying capacity C2                 | 10 kA            |
| Volume resistance                                  | <0.1 $\Omega$       | Voltage type                                       | AC/DC            |
| Wire-wire capacitance @ 1 MHz, 1 Vrms              | 30 pF               | Wire-PE capacitance @ 1 MHz, 1 Vrms                | 20 pF            |

## Connection data

|                        |           |                    |           |
|------------------------|-----------|--------------------|-----------|
| Wire connection method | RJ45-Port | Type of connection | RJ45-Port |
|------------------------|-----------|--------------------|-----------|

## Guarantee

|               |         |
|---------------|---------|
| Time interval | 5 years |
|---------------|---------|

Creation date July 23, 2024 10:49:02 AM CEST

Catalogue status 23.07.2024 / We reserve the right to make technical changes.

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## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000943    | ETIM 7.0    | EC000943    |
| ETIM 8.0    | EC000943    | ETIM 9.0    | EC000943    |
| ECLASS 9.0  | 27-13-08-07 | ECLASS 9.1  | 27-13-08-07 |
| ECLASS 10.0 | 27-13-08-07 | ECLASS 11.0 | 27-13-08-07 |
| ECLASS 12.0 | 27-17-90-90 | ECLASS 13.0 | 27-17-90-90 |
| ECLASS 14.0 | 27-17-90-90 |             |             |

## Environmental Product Compliance

|                        |                             |
|------------------------|-----------------------------|
| REACH SVHC             | /                           |
| RoHS Compliance Status | Compliant without exemption |

## Approvals

Approvals



|                       |            |
|-----------------------|------------|
| ROHS                  | Conform    |
| UL File Number Search | UL Website |
| Certificate No. (UL)  | E311081    |

## Downloads

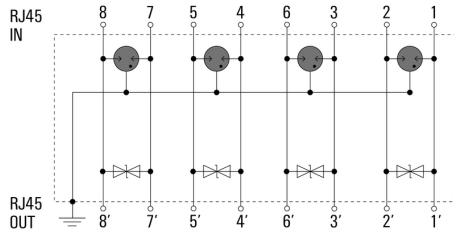
|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>   |
| User Documentation                          | <a href="#">Beipackzettel / Instruction sheet</a>                       |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                |
| Brochures                                   |   |

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**Drawings**



Circuit diagram