

# Technical data sheet

Surge protection for high-speed networks up to 1 GBit  
(Class ND-CAT6/E-B)  
Item number: 5081804



Data cable protection device for high-speed networks

- Protection class: Basic protection
- High-quality RJ45 sockets
- Low protection level at high current load
- Earthing via DIN rail or connection cable
- Support of Power over Ethernet ++ (PoE++/4PPoE) to 1 A in accordance with IEEE 802.3
- Tested transmission quality in networks up to 1 GBit/s (Class E) or CAT6
- Rapid installation through plug-in version
- Incl. DIN rail fastening set and earthing cable

Application example: 1 GBit Ethernet, 10/100 MBit Ethernet, PoE applications, IP camera systems, ISDN S0 interfaces



Alu Aluminium

## Master data

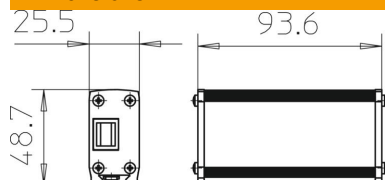
|                                    |                               |
|------------------------------------|-------------------------------|
| Item number                        | 5081804                       |
| Type                               | ND-CAT6/E-B                   |
| Description 1                      | Net Defender basis protection |
| Description 2                      | for Class E/CAT6              |
| Manufacturer                       | OBO                           |
| Dimension                          | 65V                           |
| Colour                             | Silver grey; RAL 7001         |
| Material                           | Aluminium                     |
| Smallest sales unit                | 1                             |
| Unit of quantity                   | Piece                         |
| Weight                             | 16.22 kg                      |
| Weight unit                        | kg/100 pc.                    |
| CO2 Footprint (GWP) Cradle-to-Gate | 1,4744 kg CO2e / 1 Piece      |

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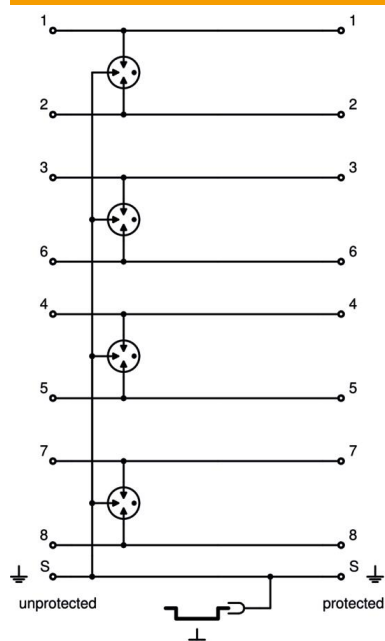
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## Dimensions



## Technical data



|                                   |                                    |
|-----------------------------------|------------------------------------|
| Number of poles                   | 8                                  |
| Version for                       | Basic protection, 8 wires + shield |
| Channel performance Ansi/EA       | CAT 6                              |
| Channel performance ISO/IEC       | Class E                            |
| Insertion loss                    | ≤3 dB                              |
| Earthing via:                     | Connection cable / DIN rail        |
| Explosion-tested version          | no                                 |
| Telecommunications contact        | no                                 |
| Total discharge current (10/350)  | 2,5 kA                             |
| Total discharge current (8/20)    | 10 kA                              |
| Maximum continuous voltage AC     | 46 V                               |
| Maximum continuous voltage DC     | 65 V                               |
| Kategorie                         | Type 1 / D1                        |
| Lightning protection zone LPZ     | 0→1                                |
| Mounting type                     | Connector/cable adapter            |
| Testing standard                  | IEC 61643-21                       |
| Shielding connection available    | yes                                |
| Screening                         | Direct                             |
| Protection rating                 | IP20                               |
| Protection level wire-wire        | <1100 V                            |
| Protection level wire-earth       | <900 V                             |
| SPD to IEC 61643-21               | Class I / D1                       |
| Plug-in system                    | RJ45 8(8)                          |
| Impulse durability wire-wire      | C2: 3 kV / 1,5 kA (8/20μs)         |
| Impulse durability wire-earth     | C2: 3 kV / 1,5 kA (8/20μs)         |
| Permitted temperature range, max. | 80 °C                              |
| Permitted temperature range, min. | -40 °C                             |