

Surge protection device - DT-UFB-485/BS - 2920612

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9-pos. D-SUB attachment plug with surge protection for RS-485 interfaces. Can alternatively be snapped onto DIN rails.

Product Features

- Adapter type
- 9-pos. D-SUB connection
- DIN rail mounting possible by removing the cap



Key commercial data

| | |
|--------------------------------------|-----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 334.1 GRM |
| Custom tariff number | 85363010 |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|--------|--------|
| Height | 108 mm |
| Width | 25 mm |
| Depth | 63 mm |

Ambient conditions

| | |
|---------------------------------|------------------|
| Ambient temperature (operation) | -40 °C ... 85 °C |
| Degree of protection | IP20 |

General

| | |
|--|---------------|
| Housing material | Zinc die-cast |
| Color | silver/black |
| Standards for air and creepage distances | IEC 60664-1 |

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Technical data

General

| | |
|---------------------|---|
| | VDE 0110-1 |
| Mounting type | Connection-specific attachment plug and DIN rail, 35 mm |
| Type | Attachment plug for DIN rail mounting |
| Number of positions | 5 |
| Direction of action | Line-Line & Line-Ground/Shield |

Protective circuit

| | |
|--|---------------------------|
| IEC test classification | B2 |
| | C1 |
| | C2 |
| | C3 |
| | D1 |
| VDE requirement class | B2 |
| | C1 |
| | C2 |
| | C3 |
| | D1 |
| Maximum continuous operating voltage U_C | 12 V DC |
| Maximum continuous voltage U_C (wire-wire) | 12 V DC |
| Maximum continuous voltage U_C (wire-ground) | 90 V DC |
| Nominal current I_N | ≤ 380 mA (25 °C) |
| Operating effective current I_C at U_C | ≤ 1 μ A |
| Residual current I_{PE} | ≤ 5 μ A |
| Nominal discharge current I_n (8/20) μ s (Core-Core) | ≤ 5 kA |
| Nominal discharge current I_n (8/20) μ s (Core-Earth) | ≤ 5 kA |
| Total surge current (8/20) μ s | 10 kA |
| Output voltage limitation at 1 kV/ μ s (Core-Earth) spike | ≤ 700 V |
| Output voltage limitation at 1 kV/ μ s (Core-Core) static | ≤ 25 V |
| Output voltage limitation at 1 kV/ μ s (Core-Earth) static | ≤ 700 V |
| Output voltage limitation at 1 kV/ μ s (Core-GND) static | ≤ 25 V |
| Residual voltage at I_n , (conductor-conductor) | ≤ 25 V |
| Residual voltage at I_n , (conductor-ground) | ≤ 55 V |
| Residual voltage at I_n , (conductor-GND) | ≤ 25 V |
| Voltage protection level U_P (Core-Core) | ≤ 30 V (B2 - 100 A) |
| | ≤ 30 V (C1 - 500 A) |
| | ≤ 40 V (C2 - 5 kA) |
| Voltage protection level U_P (Core-Earth) | ≤ 700 V (B2 - 100 A) |

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Protective circuit

| | |
|---|--|
| | $\leq 700 \text{ V (C1 - 500 A)}$ |
| | $\leq 750 \text{ V (C2 - 5 kA)}$ |
| Response time tA (Core-Core) | $\leq 100 \text{ ns}$ |
| Response time tA (Core-Earth) | $\leq 100 \text{ ns}$ |
| Input attenuation aE, sym. | typ. 0.3 dB ($\leq 30 \text{ MHz}$) |
| | typ. 0.3 dB ($\leq 7 \text{ MHz / } 150 \Omega$) |
| | typ. 0.3 dB ($\leq 2 \text{ MHz / } 600 \Omega$) |
| Cut-off frequency fg (3 dB), sym. in 100 Ohm system | typ. 50 MHz |
| Resistance in series | 3.3 Ω 10 % |
| Surge current resistance (conductor-conductor) | C1 - 1 kV/500 A |
| | C2 - 10 kV/5 kA |
| | B2 - 4 kV/100 A |
| Surge current resistance (conductor-ground) | B2 - 4 kV/100 A |
| | C1 - 1 kV/500 A |
| | C2 - 10 kV/5 kA |
| | D1 - 1 kA |

Connection data

| | |
|---------------------|-------------------|
| Connection method | D-SUB-9 |
| Connection type IN | D-SUB-9 socket |
| Connection type OUT | D-SUB-9 connector |

Connection, equipotential bonding

| | |
|-------------------|------------------|
| Connection method | Cable connection |
|-------------------|------------------|

Standards and Regulations

| | |
|-----------------------|-----------------|
| Standards/regulations | IEC 61643-21 |
| | DIN EN 61643-21 |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27140201 |
| eCl@ss 4.1 | 27130801 |
| eCl@ss 5.0 | 27130801 |
| eCl@ss 5.1 | 27130801 |
| eCl@ss 6.0 | 27130807 |
| eCl@ss 7.0 | 27130807 |
| eCl@ss 8.0 | 27130807 |

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Classifications

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC000943 |
| ETIM 3.0 | EC000943 |
| ETIM 4.0 | EC000943 |
| ETIM 5.0 | EC000943 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30212010 |
| UNSPSC 7.0901 | 39121610 |
| UNSPSC 11 | 39121610 |
| UNSPSC 12.01 | 39121610 |
| UNSPSC 13.2 | 39121620 |

Approvals

Approvals

Approvals

GOST / GOST

Ex Approvals

Approvals submitted

Approval details

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| GOST |
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| GOST |
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Accessories

Accessories

Surge protection device - DT-UFB-485/BS - 2920612

Accessories

Data cable preassembled

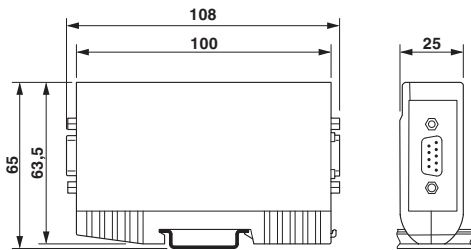
D-SUB cable - VS-09-DSUB-20-LI-1,0 - 1656233



Assembled D-SUB cable shielded, 9-pos., stranded (7-wire), cable color RAL 7000 (gray), IP20 degree of protection, head 1 with socket shell 1 and straight cable outlet, head 2 with pin shell 1 and straight cable outlet, length: 1 m

Drawings

Dimensioned drawing



Circuit diagram

