

# D-LAN-CAT.5E-U

Order No.: 2859084




DATATRAB adapter, protective adapter to be inserted into the data line for the protection of the LAN interfaces, without RJ45 cable The adapter is equipped with a universal foot, for mounting on the DIN rail NS 35/7,5.

| Commercial data          |                   |
|--------------------------|-------------------|
| EAN                      | 4017918920470     |
| Pack                     | 1 pcs.            |
| Customs tariff           | 85363010          |
| Weight/Piece             | 0.1287 KG         |
| Catalog page information | Page 97 (TT-2005) |

**Product notes**

WEEE/RoHS-compliant since:  
03/29/2006



| Technical data   |                    |
|------------------|--------------------|
| <b>General</b>   |                    |
| Housing material | Aluminum, anodized |
| Color            | black              |

|  |   |
|--|---|
| Standards for air and creepage distances                                   | DIN VDE 0110-1                                |
|  | IEC 60664-1: 1992-10                          |
| Surge voltage category   | II  |
| Pollution degree   | 2   |
| Ambient temperature (operation)  | -40 °C ... 80 °C                              |
| Mounting type  | DIN rail/G-profile rail                       |
| Design   | Attachment plug for DIN rail mounting         |
| Degree of protection   | IP20  |
| Direction of action  | Line-Line & Line-Shield & Shield-Earth Ground |
| Width  | 25.40 mm                                      |
| Height   | 45.40 mm                                      |
| Length   | 94.00 mm                                      |
| <b>Protective circuit</b>  |   |
| IEC category   | C1  |
|  | C2  |
|  | C3  |
|  | B2  |
|  | B3  |
| VDE requirement class  | C1  |
|  | C2  |
|  | C3  |
|  | B2  |
|  | B3  |
| Arrester rated voltage $U_c$ (Core-Core)                                   | $\pm 7$ V DC                                  |
| Arrester rated voltage $U_c$ (Core-Earth)                                  | $\pm 7$ V DC                                  |
| Nominal current $I_N$  | 1.5 A (/25 °C)                                |
| Operating effective current $I_c$ at $U_c$                                 | $\leq 100$ $\mu$ A                            |
| Discharge current to PE at $U_c$   | $\leq 100$ $\mu$ A                            |
| Nominal discharge surge current $I_n$ (8/20) $\mu$ s (Core-Core)           | 350 A   |
| Nominal discharge surge current $I_n$ (8/20) $\mu$ s (Core-Earth)          | 2.5 kA  |
| Max. discharge surge current $I_{max}$ (8/20) $\mu$ s maximum (Core-Earth) | 2.5 kA (in total)                             |
| Nominal pulse current $I_{an}$ (10/700) $\mu$ s (Core-Core)                | 160 A   |

|   |  |
|---|--|
| Nominal pulse current $I_n$ (10/700) $\mu$ s (Core-Earth)       | 160 A  |
| Output voltage limitation at 1 kV/ $\mu$ s (Core-Core) spike    | $\leq 22$ V  |
| Output voltage limitation at 1 kV/ $\mu$ s (Core-Earth) spike   | $\leq 80$ V (equipotential bonding lead: 1 m)  |
| Output voltage limitation at 1 kV/ $\mu$ s (Shield-Earth) spike | $\leq 700$ V (equipotential bonding lead: 1 m)   |
| Residual voltage at $I_n$ , (conductor-conductor)               | $\leq 45$ V  |
| Residual voltage at $I_n$ , (conductor-ground)                  | $\leq 45$ V  |
| Residual voltage at $I_n$ , (shield-ground)                     | $\leq 700$ V   |
| Protection level $U_p$ (Core-Core)                              | $\leq 50$ V (C1, 500 V/250 A)<br>$\leq 20$ V (B3, 2 kV/25 A)   |
| Protection level $U_p$ (Core-Earth)                             | $\leq 65$ V (C1, 500 V/250 A - PA-Ltg: 1 m)<br>$\leq 25$ V (B3, 2 kV/25 A - PA-Ltg: 1 m)<br>$\leq 60$ V (C3, 7 kV/90 A - PA-Ltg: 1 m)    |
| Protection level $U_p$ (Shield-Earth)                           | $\leq 850$ V (C2, 4 kV/2 kA - PA-Ltg: 1 m)   |
| Response time $t_A$ (Core-Core)                                 | $\leq 500$ ns  |
| Response time $t_A$ (Core-Earth)                                | $\leq 100$ ns  |
| Input attenuation $a_E$ , sym.                                  | 1 dB (up to 100 MHz, 100 $\Omega$ system)  |
| Near-end crosstalk attenuation                                  | 36 dB (pair 3-6 against pair 4-5 in 100 $\Omega$ system / 100 MHz)<br>40 dB (all other pair combinations in 100 $\Omega$ system/100 MHz) |
| Cut-off frequency $f_g$ (3 dB), sym. in 100 Ohm system          | $\leq 100$ MHz   |
| Capacity (Core-Core)  | 20 pF (typical)  |
| Capacity (Core-Earth)   | 1 pF (typical)   |
| Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)   | B2 (4 kV / 100 A)<br>B3 (2 kV/25 A)<br>C1 (500 V / 250 A)  |
| Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)  | B2 (4 kV / 100 A)<br>C1 (500 V/250 A)<br>C2 (4 kV / 2 kA)<br>B3 (2kV/25 A)   |
| <b>Connection data</b>  |  |
| Type of connection  | RJ45   |

|                     |  |
|---------------------|--|
| Connection type IN  | RJ45 female connector  |
| Connection type OUT | RJ45 female connector  |
| Connection system   | Network interfaces (e.g. Ethernet, Token Ring and CDDI/FDDI) |

**Connection, equipotential bonding**

|                    |                  |
|--------------------|------------------|
| Type of connection | Cable connection |
|--------------------|------------------|

**Connection, protective circuit**

|                       |                |
|-----------------------|----------------|
| Standards/regulations | IEC 61643-21   |
|                       | E VDE 0845-3-1 |
|                       | DIN EN 50173-1 |

**Certificates / Approvals**



Certification GOST, UL Listed

**Accessories**

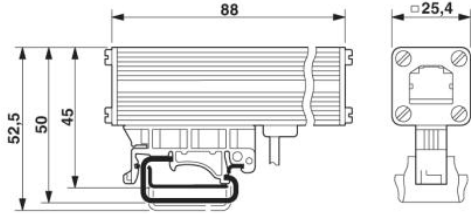
| Item                   | Designation    | Description                                |
|------------------------|----------------|--|
| <b>Cable/conductor</b> |                |  |
| 2838694                | D-C/RJ45-8/0,5 | Connecting line with RJ45 plug, 0.5 m long |
| 2818193                | D-C/RJ45-8/1,5 | Connecting line with RJ45 plug, 1.5 m long |

**Additional products**

| Item                   | Designation    | Description                                |
|------------------------|----------------|--|
| <b>Cable/conductor</b> |                |  |
| 2838694                | D-C/RJ45-8/0,5 | Connecting line with RJ45 plug, 0.5 m long |
| 2818193                | D-C/RJ45-8/1,5 | Connecting line with RJ45 plug, 1.5 m long |

## Drawings

### Dimensioned drawing



### Circuit diagram

