


# DT-UFB-V24/S-9-SB

Order No.: 2803069



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Attachment plug with surge protection for V.24 interface. Connection: D-SUB-9 plug/socket, installation in lines

Commercial data	
GTIN (EAN)	 4 046356 312974
sales group	J400
Pack	1 pcs.
Customs tariff	85363010
Catalog page information	Page 140 (TT-2009)

### Product notes

WEEE/RoHS-compliant since: 06/03/2008



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## Technical data

General	
Housing material	Zinc die-cast
Color	silver/black
Standards for air and creepage distances	IEC 60664-1: 1992-10 VDE 0110-1
Total surge current (8/20) $\mu$ s	5 kA

Ambient temperature (operation)	-40 °C ... 85 °C
Mounting type	Connection-specific attachment plug and DIN rail, 35 mm
Design	Attachment plug for DIN rail mounting
Number of positions	9
Degree of protection	IP20
Direction of action	Line-Line & Line-Signal Ground/Shield & Signal Ground/Shield-Earth Ground
Width	25.00 mm
Height	63.00 mm
Length	110.00 mm

**Protective circuit**

IEC category	B2
	C1
	C2
	C3
VDE requirement class	B2
	C1
	C2
	C3
Maximum continuous operating voltage $U_c$	15 V DC
	10 V AC
Maximum continuous voltage $U_c$ (wire-GND)	15 V DC
	10 V AC
Nominal current $I_N$	$\leq 1$ A (25°C)
Operating effective current $I_c$ at $U_c$	$\leq 5$ $\mu$ A (per wire)
Ground conductor current $I_{PE}$	$\leq 1$ $\mu$ A
Nominal discharge surge current $I_n$ (8/20) $\mu$ s (Core-Core)	$\leq 250$ A
Nominal discharge surge current $I_n$ (8/20) $\mu$ s (Core-Earth)	$\leq 250$ A
Nominal discharge surge current $I_n$ (8/20) $\mu$ s (Core-GND)	$\leq 250$ A
Total surge current (8/20) $\mu$ s	5 kA
Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (Core-Core)	50 A
Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (Core-Earth)	50 A

Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (Core-GND)	50 A
Nominal pulse current $I_{an}$ (10/700) $\mu$ s (Core-Core)	50 A
Nominal pulse current $I_{an}$ (10/700) $\mu$ s (Core-Earth)	50 A
Nominal pulse current $I_{an}$ (10/700) $\mu$ s (Core-GND)	50 A
Output voltage limitation at 1 kV/ $\mu$ s (Core-Core) static	$\leq 50$ V
Output voltage limitation at 1 kV/ $\mu$ s (Core-GND) static	$\leq 30$ V
Residual voltage at $I_{n1}$ (conductor-conductor)	$\leq 55$ V
Residual voltage at $I_n$ (conductor-GND)	$\leq 30$ V
Protection level $U_p$ (Core-Core)	$\leq 55$ V (B2 - 25 A) $\leq 55$ V (C1 - 250 A)
Protection level $U_p$ (Core-Earth)	$\leq 400$ V (B2 - 25 A) $\leq 450$ V (C1 - 250 A)
Protection level $U_p$ (Core-GND)	$\leq 30$ V (C1 - 250 A) $\leq 30$ V (B2 - 25 A)
Response time $t_A$ (Core-Core)	$\leq 1$ ns
Response time $t_A$ (Core-Earth)	$\leq 1$ ns
	$\leq 100$ ns
Response time $t_A$ (Shield-Earth)	$\leq 100$ ns
Input attenuation $a_E$ , sym.	Typ. 0.3 dB ( $\leq 700$ kHz / 100 $\Omega$ ) Typ. 0.3 dB ( $\leq 700$ kHz / 150 $\Omega$ )
Input attenuation $a_E$ , asym.	Typ. 0.3 dB ( $\leq 400$ kHz / 100 $\Omega$ ) Typ. 0.3 dB ( $\leq 400$ kHz / 150 $\Omega$ )
Cut-off frequency $f_g$ (3 dB), sym. in 100 Ohm system	Typ. 2.5 MHz
Cut-off frequency $f_g$ (3 dB), sym. in 150 Ohm system	Typ. 2.5 MHz
Cut-off frequency $f_g$ (3 dB), asym. (GND) in 100 Ohm system	Typ. 1.3 MHz
Cut-off frequency $f_g$ (3 dB), asym. (GND) in 150 Ohm system	Typ. 1.3 MHz
Capacity (Core-Core)	Typ. 1 nF ( $f=1$ MHz / $V_R=0$ V)
Capacity (Core-GND)	Typ. 2 nF ( $f=1$ MHz / $V_R=0$ V)

Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	B2 (1 kV/25 A)
	C1 (500 V / 250 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-GND)	B2 (1 kV/25 A)
	C1 (500 V/250 A)

**Connection data**

Type of connection	D-SUB-9
Connection type IN	D-SUB-9 male connector
Connection type OUT	D-SUB-9 female connector

**Connection, equipotential bonding**

Type of connection	Cable connection / DIN rail
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**Connection, protective circuit**

Standards/regulations	IEC 61643-21
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**Certificates / Approvals**



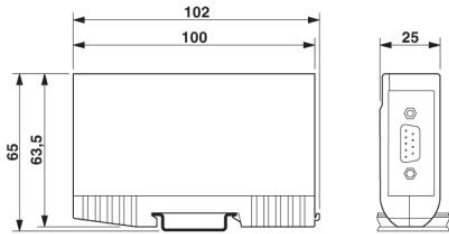
Certification GOST

**Accessories**

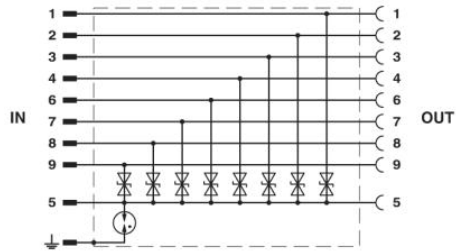
Item	Designation	Description
<b>General</b>		
1656233	VS-09-DSUB-20-LI-1,0	Assembled D-SUB cable shielded, 9-pos., stranded (7-wire), cable color RAL 7000 (gray), IP20 degree of protection, head 1 with socket shell 1 and straight cable outlet, head 2 with pin shell 1 and straight cable outlet, length: 1 m

## Diagrams/Drawings

### Dimensioned drawing



### Circuit diagram



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