

## Surge protection device - CN-UB-70DC-6-BB - 2803166

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Attachment plug with surge protection for coaxial signal interfaces. Connection: N connector, female/female

### Why buy this product

- Mounting plate enables mounting, e.g., in a control cabinet



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 293211
Weight per Piece (excluding packing)	70.0 GRM
Country of origin	United States

### Technical data

#### Dimensions

Height	24 mm
Width	24 mm
Depth	47 mm

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 90 °C
Degree of protection	IP68

#### General

Housing material	Brass (CuZn)
Color	nickel
Standards for clearances and creepage distances	DIN VDE 0110-1
	IEC 60664-1
Mounting type	Connection-specific intermediate plugging
Type	Attachment plug
Direction of action	Line-Shield/Earth Ground

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## Technical data

### Additional descriptions

Note	To meet the discharge conditions for DC voltages, please note the following information: "The surge protective device should be used together with a transmitter unit, which shuts down in the event of a short-circuit."
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### Protective circuit

IEC test classification	C2
	C3
	D1
VDE requirement class	C2
	C3
	D1
Maximum continuous voltage $U_C$	70 V DC
	50 V AC
Maximum continuous voltage $U_C$ (wire-ground)	70 V DC
	50 V AC
Nominal current $I_N$	10 A
Operating effective current $I_C$ at $U_C$	$\leq 1 \mu A$
Nominal discharge current $I_n$ (8/20) $\mu s$	5 kA
Nominal discharge current $I_n$ (8/20) $\mu s$ (Core-Earth)	5 kA
Nominal discharge current $I_n$ (8/20) $\mu s$ (Core-Shield)	5 kA
Total surge current (8/20) $\mu s$	5 kA
Max. discharge current $I_{max}$ (8/20) $\mu s$ maximum (Core-Earth)	10 kA
Max. discharge current $I_{max}$ (8/20) $\mu s$ maximum (Core-Shield)	10 kA
Nominal pulse current $I_{an}$ (10/1000) $\mu s$ (Core-Shield)	100 A
Impulse discharge current (10/350) $\mu s$ , peak value $I_{imp}$	1 kA
Output voltage limitation at 1 kV/ $\mu s$ (Core-Earth) spike	$\leq 650 V$
Output voltage limitation at 1 kV/ $\mu s$ (Core-Shield) spike	$\leq 650 V$
Output voltage limitation at 1 kV/ $\mu s$ (Core-Earth) static	$\leq 650 V$
Output voltage limitation at 1 kV/ $\mu s$ (Core-Shield) static	$\leq 650 V$
Voltage protection level $U_p$ (core-ground)	$\leq 800 V$ (C2 - 4 kV/2 kA)
	$\leq 1 kV$ (C2 - 10 kV/5 kA)
Voltage protection level $U_p$ (core-shield)	$\leq 800 V$ (C2 - 4 kV/2 kA)
	$\leq 1 kV$ (C2 - 10 kV/5 kA)
Response time $t_A$ (Core-Earth)	$\leq 100 ns$
Response time $t_A$ (Core-GND)	$\leq 100 ns$
Input attenuation $a_E$ , asym.	0.1 dB (6 GHz)
Cut-off frequency $f_g$ (3 dB), asym. (shield) in 50 Ohm system	$> 6 GHz$
Frequency range	0 Hz ... 6 GHz
Standing wave ratio SWR in a 50 $\Omega$ system	typ. 1.15 (6 GHz)
Permissible HF power $P_{max}$ at VSWR = xx (50 ohm system)	30 W (VSWR = 1.15)

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## Technical data

### Protective circuit

Capacity (Core-Earth)	typ. 1.5 pF
Capacity asymmetrical (shield)	typ. 1.5 pF
Impulse durability (conductor-ground)	C2 - 10 kV/5 kA
	C3 - 100 A
	D1 - 1 kA
Impulse durability (conductor-shield)	C2 - 10 kV/5 kA
	C3 - 100 A
	D1 (1 kA)
Alternating current carrying capacity (conductor-shield)	5 A - 1 s

### Connection data

Connection method	N connector 50 Ω
Connection type IN	N connector, female
Connection type OUT	N connector, female

### Standards and Regulations

Standards/regulations	IEC 61643-21
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## 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
eCl@ss 9.0	27130807

### 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

## Surge protection device - CN-UB-70DC-6-BB - 2803166

### Approvals

Approvals

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Approvals

EAC / EAC

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Ex Approvals

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Approvals submitted

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Approval details

EAC
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EAC
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### Accessories

Accessories

Assembly adapter

Mounting plate - CN-UB/MP - 2818135



Tongue for attaching the CN-UB..., to housing panels, for example.

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Mounting plate - CN-UB/MP-90DEG-50 - 2803137



Angled bracket for individually fixing CN-UB... to housing panels, for example.

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Additional products

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### Accessories

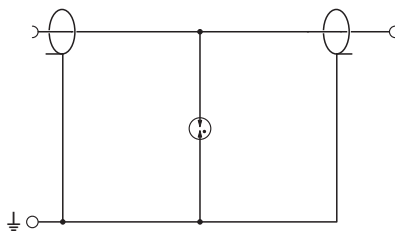
Mounting plate - CN-UB/MP - 2818135



Tongue for attaching the CN-UB..., to housing panels, for example.

### Drawings

Circuit diagram



Dimensional drawing

