

Surge protection device - CF-UB-280DC-SB-SET - 2839541

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Attachment plug with replaceable surge protection for coaxial signal interfaces. Connection: N connector, male-female, with adapter N connector to F connector.



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	210.3 GRM
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	25 mm
Width	25 mm
Depth	72 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 80 °C
Degree of protection	IP20

General

Housing material	Nickel-plated brass
Color	nickel
Standards for air and creepage distances	IEC 60664-1
Surge voltage category	III
Pollution degree	2
Mounting type	Connection-specific intermediate plugging
Type	Attachment plug
Direction of action	Line-Shield/Earth Ground

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Technical data

Protective circuit

IEC test classification	C2
	C3
	D1
VDE requirement class	C2
	C3
	D1
Maximum continuous operating voltage U_c	280 V DC
	195 V AC
Maximum continuous voltage U_c (wire-ground)	280 V DC
	195 V AC
Nominal current I_N	5 A (25 °C)
Operating effective current I_c at U_c	$\leq 1 \mu\text{A}$
Nominal discharge current I_n (8/20) μs (Core-Earth)	20 kA
Nominal discharge current I_n (8/20) μs (Core-Shield)	20 kA
Total surge current (8/20) μs	20 kA
Total surge current (10/350) μs	2.5 kA
Max. discharge current I_{max} (8/20) μs maximum (Core-Shield)	20 kA
Nominal pulse current I_{an} (10/1000) μs (Core-Shield)	100 A
Output voltage limitation at 1 kV/ μs (Core-Earth) spike	$\leq 900 \text{ V}$
Output voltage limitation at 1 kV/ μs (Core-Shield) spike	$\leq 900 \text{ V}$
Voltage protection level U_p (Core-Earth)	$\leq 1.1 \text{ kV}$ (C2 (10 kV/5 kA))
	$\leq 900 \text{ V}$ (C1 - 1 kV/500 A)
	$\leq 1 \text{ kV}$ (C3 - 25 A)
Voltage protection level U_p (Core-Shield)	$\leq 1.1 \text{ kV}$ (C2 (10 kV/5 kA))
	900 V (C1 - 1 kV/500 A)
	$\leq 1 \text{ kV}$ (C3 - 25 A)
Response time t_A (Core-Earth)	$\leq 100 \text{ ns}$
Response time t_A (Core-GND)	$\leq 100 \text{ ns}$
Cut-off frequency f_g (3 dB), asym. (shield) in 50 Ohm system	$> 2 \text{ GHz}$
Permissible HF power P_{max} at VSWR = xx (50 ohm system)	700 W (VSWR = 1.1)
	200 W (VSWR = ∞)
Capacity (Core-Earth)	typ. 1.5 pF
Capacity asymmetrical (shield)	typ. 1.5 pF
Surge current resistance (conductor-ground)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	C3 - 100 A
	D1 - 2,5 kA

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Connection data

Connection method	F connector
Connection type IN	F connector, male
Connection type OUT	F 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

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943

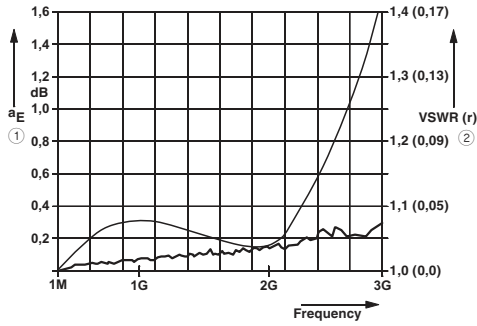
UNSPSC

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

Drawings

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Diagram



- ① Typical attenuation curve for CN-UB-280DC...
- ② Typical VSWR at CN-UB-280DC...

Circuit diagram

