

# CN-LAMBDA/4-0.47-BB - Surge protection device

2800021

<https://www.phoenixcontact.com/us/products/2800021>

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Attachment plug with Lambda/4 technology as surge protection for coaxial signal interfaces.  
Connection: N connectors socket-socket

## Your advantages

- Easy installation with system-compliant connection
- Use under extreme ambient conditions with robust design
- Service-friendly with maintenance-free protective circuit
- Exceptional protective properties with Lambda/4 technology

## Commercial data

Item number	2800021
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CL26
Product key	CL3312
GTIN	4046356367943
Weight per piece (including packing)	193.8 g
Weight per piece (excluding packing)	187.7 g
Customs tariff number	85363010
Country of origin	US

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## Technical data

### Product properties

Product type	Surge protection for transceiver systems
IEC test classification	C2
	C3
	D1
VDE requirement class	C2
	C3
	D1
Type	Intermediate plug
Number of positions	1
Surge protection fault message	none

### Connection data

Connection method	N Connector
Tightening torque	1.4 Nm ... 1.7 Nm (N coupling nut)

### Dimensions

Width	32 mm
Height	32 mm
Depth	83 mm

### Material specifications

Color	nickel color
Seal material	Silicon
Housing material	Brass (CuZn)
Housing surface material	Guard plate (TM)
Inner conductor material	BeCu
Inner conductor surface material	Gold
Insulation body material	PTFE

### Mechanical properties

#### Mechanical data

Open side panel	No
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### Protective circuit

Direction of action	Line-Shield/Earth Ground
Rated current	5 A (25 °C)
Nominal discharge current $I_n$ (8/20) $\mu$ s (line-ground)	20 kA
Nominal discharge current $I_n$ (8/20) $\mu$ s (line-shield)	20 kA
Pulse discharge current $I_{imp}$ (10/350) $\mu$ s	$\leq$ 15 kA
Total discharge current $I_{Total}$ (8/20) $\mu$ s	30 kA

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Total discharge current $I_{Total}$ (10/350) $\mu$ s	15 kA
Max. discharge current $I_{max}$ (8/20) $\mu$ s maximum (line-earth)	30 kA
Max. discharge current $I_{max}$ (8/20) $\mu$ s maximum (line-shield)	30 kA
Output voltage limitation at 1 kV/ $\mu$ s (line-earth) spike	$\leq$ 55 V (6 kV / 3 kA)
Output voltage limitation at 1 kV/ $\mu$ s (line-shield) spike	$\leq$ 55 V (6 kV / 3 kA)
Output voltage limitation at 1 kV/ $\mu$ s (line-earth) static	$\leq$ 55 V (6 kV / 3 kA)
Output voltage limitation at 1 kV/ $\mu$ s (line-shield) static	$\leq$ 55 V (6 kV / 3 kA)
Voltage protection level $U_p$ (line-earth)	$\leq$ 95 V (C2 - 10 kV / 5 kA)
Voltage protection level $U_p$ (line-shield)	$\leq$ 95 V (C2 - 10 kV / 5 kA)
Input attenuation aE, asym.	typ. 0.05 dB ( $\leq$ 0.10 dB)
Frequency range	380 MHz ... 470 MHz
Voltage standing wave ratio VSWR in a 50 $\Omega$ system	typ. 1.05 ( $\leq$ 1,15)
Permissible HF power $P_{max}$ at VSWR = xx (50 ohm system)	$\leq$ 800 W $\leq$ 4 kW (peak)
Surge protection fault message	none
Impulse durability (line-earth)	C2 - 10 kV / 5 kA D1 - 2.5 kA
Impulse durability (line-shield)	C2 - 10 kV/5 kA D1 - 2.5 kA

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

VDE requirement class	C2
	C3
	D1

### Standards Information technology specification

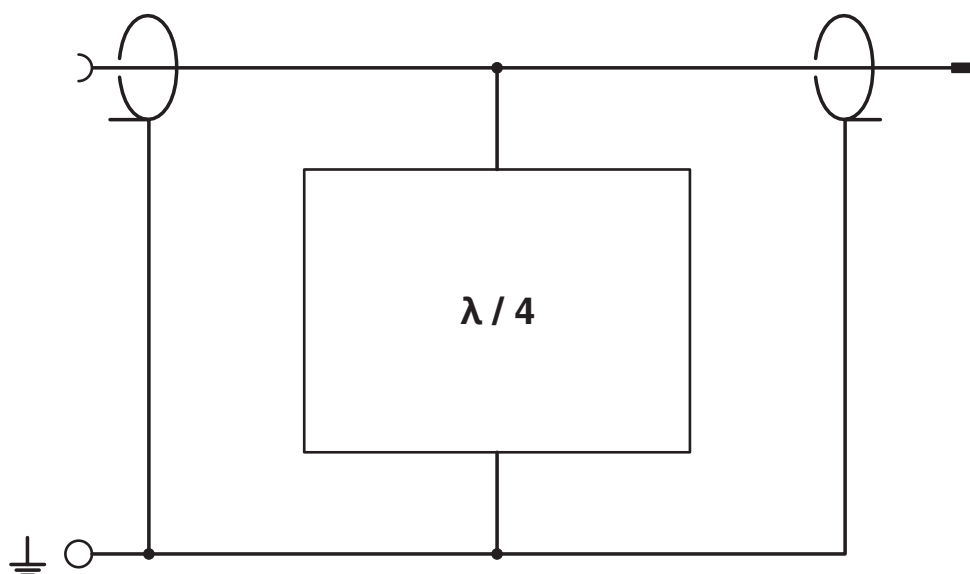
Standards/regulations	IEC 61643-21
	IEC 61643-21
Standards/specifications	IEC 61643-21
Note	2005

## Mounting

Mounting type	Connection-specific intermediate plugging
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Drawings

Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0	27171504
ECLASS-15.0	27171504

### ETIM

ETIM 10.0	EC001466
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### UNSPSC

UNSPSC 21.0	39121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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### EF3.1 Climate Change

CO2e kg	21.375 kg CO2e
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