

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
Note	Made to order (non-returnable)
Sales key	CL26
Product key	CL3312
Catalog page	Page 202 (C-4-2019)
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	Attachment plug
Number of positions	1
Surge protection fault message	none

Connection data

Connection method	N Connector
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Dimensions

Width	32 mm
Height	32 mm
Depth	83 mm

Material specifications

Color	Nickel
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) μ s (line-ground)	20 kA
Nominal discharge current I_n (8/20) μ s (line-shield)	20 kA
Pulse discharge current I_{imp} (10/350) μ s	≤ 15 kA
Total discharge current I_{total} (8/20) μ s	30 kA
Total discharge current I_{total} (10/350) μ s	15 kA

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Max. discharge current $I_{\max}$ (8/20) μs maximum (line-earth)	30 kA
Max. discharge current $I_{\max}$ (8/20) μs maximum (line-shield)	30 kA
Output voltage limitation at 1 kV/ μs (line-earth) spike	$\leq 55 \text{ V}$ (6 kV / 3 kA)
Output voltage limitation at 1 kV/ μs (line-shield) spike	$\leq 55 \text{ V}$ (6 kV / 3 kA)
Output voltage limitation at 1 kV/ μs (line-earth) static	$\leq 55 \text{ V}$ (6 kV / 3 kA)
Output voltage limitation at 1 kV/ μs (line-shield) static	$\leq 55 \text{ V}$ (6 kV / 3 kA)
Voltage protection level U_p (line-earth)	$\leq 95 \text{ V}$ (C2 - 10 kV / 5 kA)
Voltage protection level U_p (line-shield)	$\leq 95 \text{ V}$ (C2 - 10 kV / 5 kA)
Input attenuation aE, asym.	typ. 0.05 dB ($\leq 0.10 \text{ dB}$)
Frequency range	380 MHz ... 470 MHz
Voltage standing wave ratio VSWR in a 50 Ω system	typ. 1.05 ($\leq 1,15$)
Permissible HF power $P_{\max}$ at VSWR = xx (50 ohm system)	$\leq 800 \text{ W}$ $\leq 4 \text{ kW (peak)}$
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

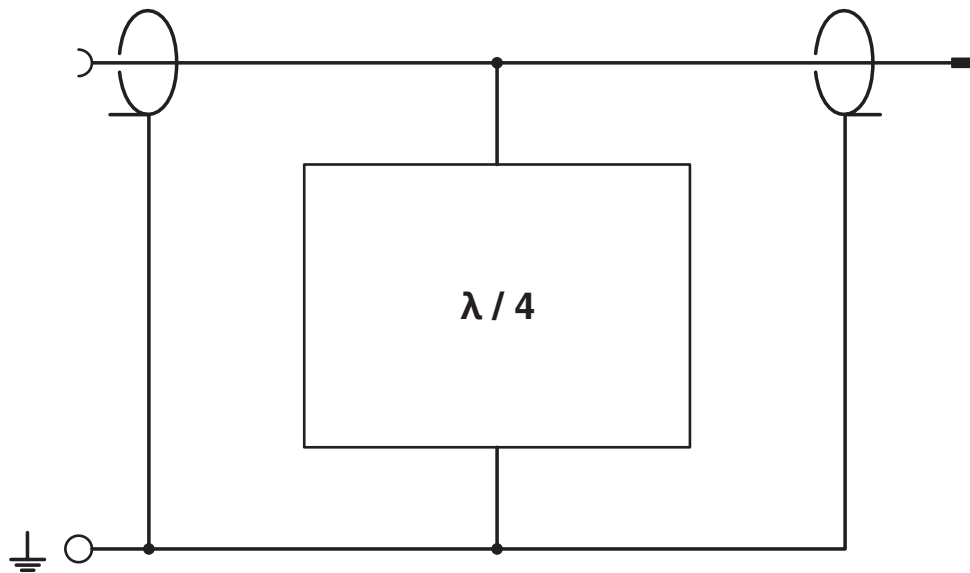
Standards/regulations	IEC 61643-21
	IEC 61643-21
Standards/specifications	IEC 61643-21
Note	2005

Mounting

Mounting type	Connection-specific intermediate plugging
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Drawings

Circuit diagram



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Approvals

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EAC

Approval ID: RU C-DE.*09.B.00169

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Classifications

ECLASS

ECLASS-11.0	27130807
ECLASS-13.0	27171504

ETIM

ETIM 9.0	EC000943
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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
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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Accessories

CN-UB/MP-90DEG-50 - Mounting panel

2803137

<https://www.phoenixcontact.com/us/products/2803137>



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

RAD-ADP-N/M-SMA/F - Adapter

2917036

<https://www.phoenixcontact.com/us/products/2917036>



Antenna adapter, frequency range: 0.3 GHz ... 6 GHz, connection: N (male) -> SMA (female)

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RAD-PIG-EF316-N-RSMA - Antenna cable

2701402

<https://www.phoenixcontact.com/us/products/2701402>

Antenna cable for control cabinet feed-through, outside diameter: 3.2 mm (0.126 in.), inner conductor: stranded, attenuation: 0.6 / 0.9 / 1.4 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (female) -> RSMA (male), cable length: 0.5 m (1.6 ft.)



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