

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



2800021

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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
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

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



2800021

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

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

Data management status

Article revision	03
------------------	----

Connection data

Connection method	N Connector
-------------------	-------------

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
-----------------	----

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	\leq 15 kA

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



2800021

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

Total discharge current I_{total} (8/20) μ s	30 kA
Total discharge current I_{total} (10/350) μ s	15 kA
Max. discharge current I_{max} (8/20) μ s maximum (line-earth)	30 kA
Max. discharge current I_{max} (8/20) μ s maximum (line-shield)	30 kA
Output voltage limitation at 1 kV/ μ s (line-earth) spike	≤ 55 V (6 kV / 3 kA)
Output voltage limitation at 1 kV/ μ s (line-shield) spike	≤ 55 V (6 kV / 3 kA)
Output voltage limitation at 1 kV/ μ s (line-earth) static	≤ 55 V (6 kV / 3 kA)
Output voltage limitation at 1 kV/ μ s (line-shield) static	≤ 55 V (6 kV / 3 kA)
Voltage protection level U_p (line-earth)	≤ 95 V (C2 - 10 kV / 5 kA)
Voltage protection level U_p (line-shield)	≤ 95 V (C2 - 10 kV / 5 kA)
Input attenuation aE, asym.	typ. 0.05 dB (≤ 0.10 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)	≤ 800 W ≤ 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

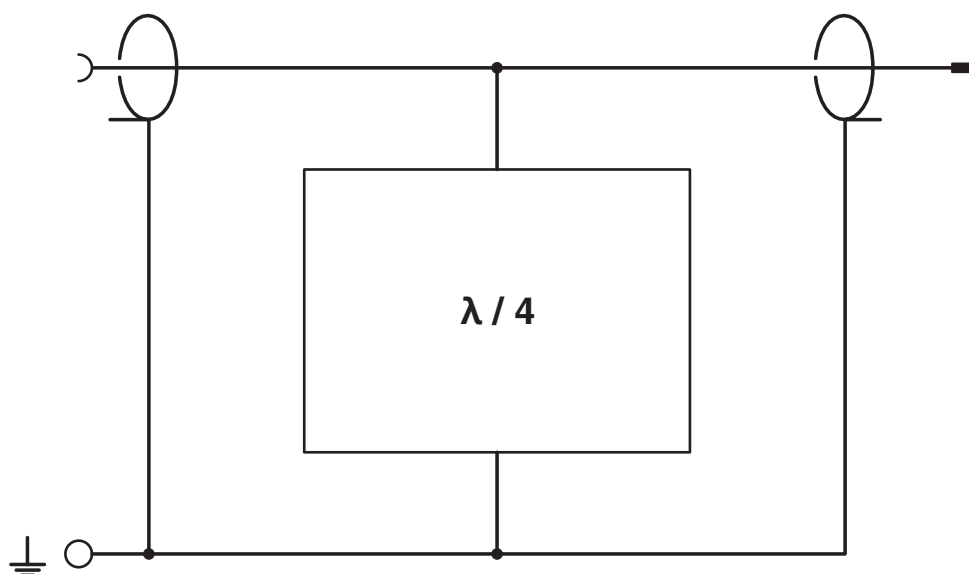
Standards/regulations	IEC 61643-21
	IEC 61643-21
Standards/specifications	IEC 61643-21
Note	2005

Mounting

Mounting type	Connection-specific intermediate plugging
---------------	---

Drawings

Circuit diagram



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



2800021

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

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2800021>



EAC

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

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



2800021

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

Classifications

ECLASS

ECLASS-11.0	27130807
ECLASS-13.0	27171504

ETIM

ETIM 9.0	EC000943
----------	----------

UNSPSC

UNSPSC 21.0	39121600
-------------	----------

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



2800021

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

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%
-------------------------------------	----------------------------

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com