

CUC-PPC-C2ZNI-SX/24FKP5 - Power connector



1421783

<https://www.phoenixcontact.com/us/products/1421783>

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Power connector, design: Version 14, degree of protection: IP65/IP67, number of positions: 5, material: Metal, connection method: Spring-cage connection, connection cross section: AWG 18-13, cable outlet: straight, Universal

Your advantages

- Fixed coding
- Increased temperature range
- Lockable
- One-part housing

Commercial data

Item number	1421783
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB17
Product key	ABNOHA
GTIN	4055626280349
Weight per piece (including packing)	110.9 g
Weight per piece (excluding packing)	110.9 g
Customs tariff number	85366990
Country of origin	PL

Technical data

Notes

General	This product corresponds to the PROFINET Cabling and Interconnection Technology Guideline for PROFINET regulations, version 2.00, order no: 2.252, Chapter 11 Connectors for 24 Volt Power Supply Cabling and Chapter 13 Application specific Cabling and Interconnection Technology (AIDA)
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Product properties

Product type	Data connector (cable side)
Type	Version 14
Sensor type	Universal
Number of positions	5
Connection profile	MSTB
Shielded	no
Cable outlet	straight

Insulation characteristics

Overvoltage category	I
Degree of pollution	3

Electrical properties

Rated voltage (II/2)	630 V
Rated voltage (III/2)	400 V
Rated voltage (III/3)	24 V
	250 V
Rated surge voltage (II/2)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (III/3)	4 kV
Rated current	16 A (at 20 °C)
	16 A
Nominal voltage U_N	24 V
Nominal current I_N	16 A
Transmission medium	Copper
Power transmission	PoE

Connection data

Connection technology

Connection method	Spring-cage connection
Connection cross section AWG	18 ... 13
Conductor cross section	0.75 mm ² ... 2.5 mm ²

Dimensions

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Width	31 mm
Height	36 mm
Length	67 mm

Material specifications

Material	Metal
Flammability rating according to UL 94	V0
Seal material	NBR
Housing material	Metal
Housing surface material	nickel-plated
Cable seal material	TPE
Contact material	Copper alloy
Contact surface material	Gold over nickel
Contact carrier material	PA

Cable/line

External cable diameter	9 mm ... 13 mm
Stripping length of the individual wire	10 mm
Cable cross section	0.75 mm ²

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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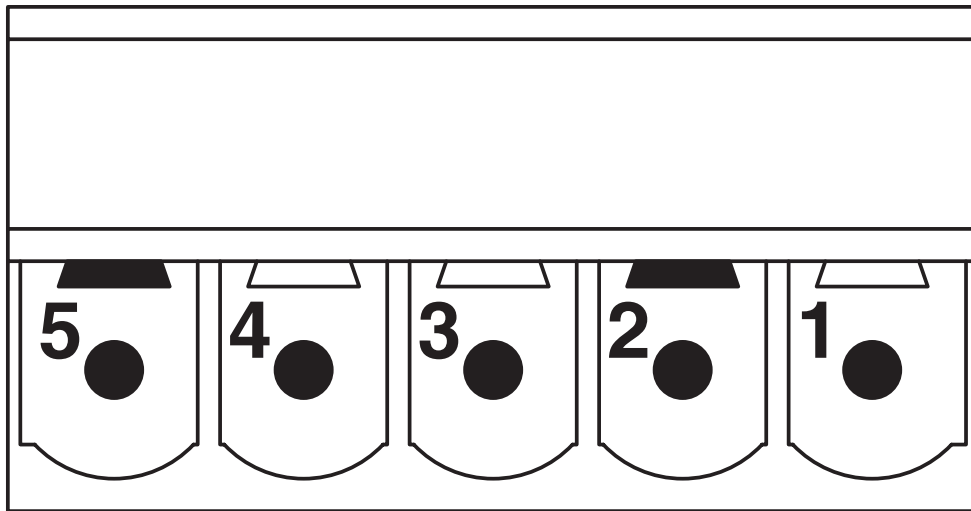
Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65/IP67
	IP65/IP67
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Ambient temperature (assembly)	-10 °C ... 40 °C

Drawings

Schematic diagram



Pin assignment PROFINET push-pull, power connector, 24 V, fixed coding

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Approvals

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 cULus Recognized Approval ID: E118976-20080903				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	24 V	16 A	- 14	-

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Classifications

ECLASS

ECLASS-13.0	27440290
ECLASS-15.0	27440290

ETIM

ETIM 9.0	EC002943
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UNSPSC

UNSPSC 21.0	39121400
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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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