

# CA-1RP1N8A8007 - Cable connector



1623841  
<https://www.phoenixcontact.com/us/products/1623841>

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M23, Cable connector, series: CA, straight, shielded: yes, Screw locking mechanism, No. of pos. : 16+2+FE, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, cable diameter range: 6 mm ... 10 mm, coding: N, this item is expected to be lead-free from Q2 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

## Your advantages

- Safe use in the field, thanks to high degree of protection
- Connector for flexible on-site assembly
- Consistent EMC protection for reliable transmission of signals
- Crimping connection: vibration- and temperature-resistant assembly

## Commercial data

Item number	1623841
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB31
Product key	ABRAEA
GTIN	4055626228525
Weight per piece (including packing)	90 g
Weight per piece (excluding packing)	85.697 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Notes

Order information:	Order crimp contacts 16 x Ø 1 mm, 2 x Ø 1.5 mm, 1 x Ø 1.5 (PE, first) separately
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### Product properties

Product type	Circular connector (cable-side)
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### Connector

#### Insulating body

Note	Order information: Order crimp contacts 16x Ø 1 mm, 2x Ø 1.5 mm, 1x Ø 1.5 mm (FE, first) separately	
Coding	N	
Material (Insulating body)	PA 6.6	
Flammability rating according to UL 94	V0	
Insertion/withdrawal cycles	100	
Connection method	Crimp connection	
Contact switching type	Pin	
Application	Signal	
Number of positions	19	
Direction of rotation	Standard	
Connection profile	16+2+FE	
Installation height	2000 m	
Number Contact (Contact group 1)	3	
Diameter Contact (Contact group 1)	1.5 mm	
Litz wire cross-section min. Contact (Contact group 1)	0.08 mm²	
Litz wire cross-section max. Contact (Contact group 1)	1 mm²	
Rated current Contact (Contact group 1)	10 A (for max. connection cross section)	
Rated voltage Contact (Contact group 1)	48 V AC	
	74 V DC	
Rated surge voltage	1.5 kV	
Overvoltage category	II	
Degree of pollution	3	
Number Contact (Contact group 2)	16	
Diameter Contact (Contact group 2)	1 mm	
Litz wire cross-section min. Contact (Contact group 2)	0.08 mm²	
Litz wire cross-section max. Contact (Contact group 2)	1 mm²	
Rated current Contact (Contact group 2)	8 A	
Rated voltage Contact (Contact group 2)	48 V AC	
	48 V AC	
Rated surge voltage	1.5 kV	
Overvoltage category	III	

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Degree of pollution	3
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## Housing

Type	Cable connector housing
Thread type	M23
Design	straight
Type of locking	Screw locking mechanism
Pg screw connection	none
Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)
Material for screw connection	CuZn
Degree of protection (plugged in)	IP67

## Seal

External cable diameter	6 mm ... 10 mm
Seal material	NBR

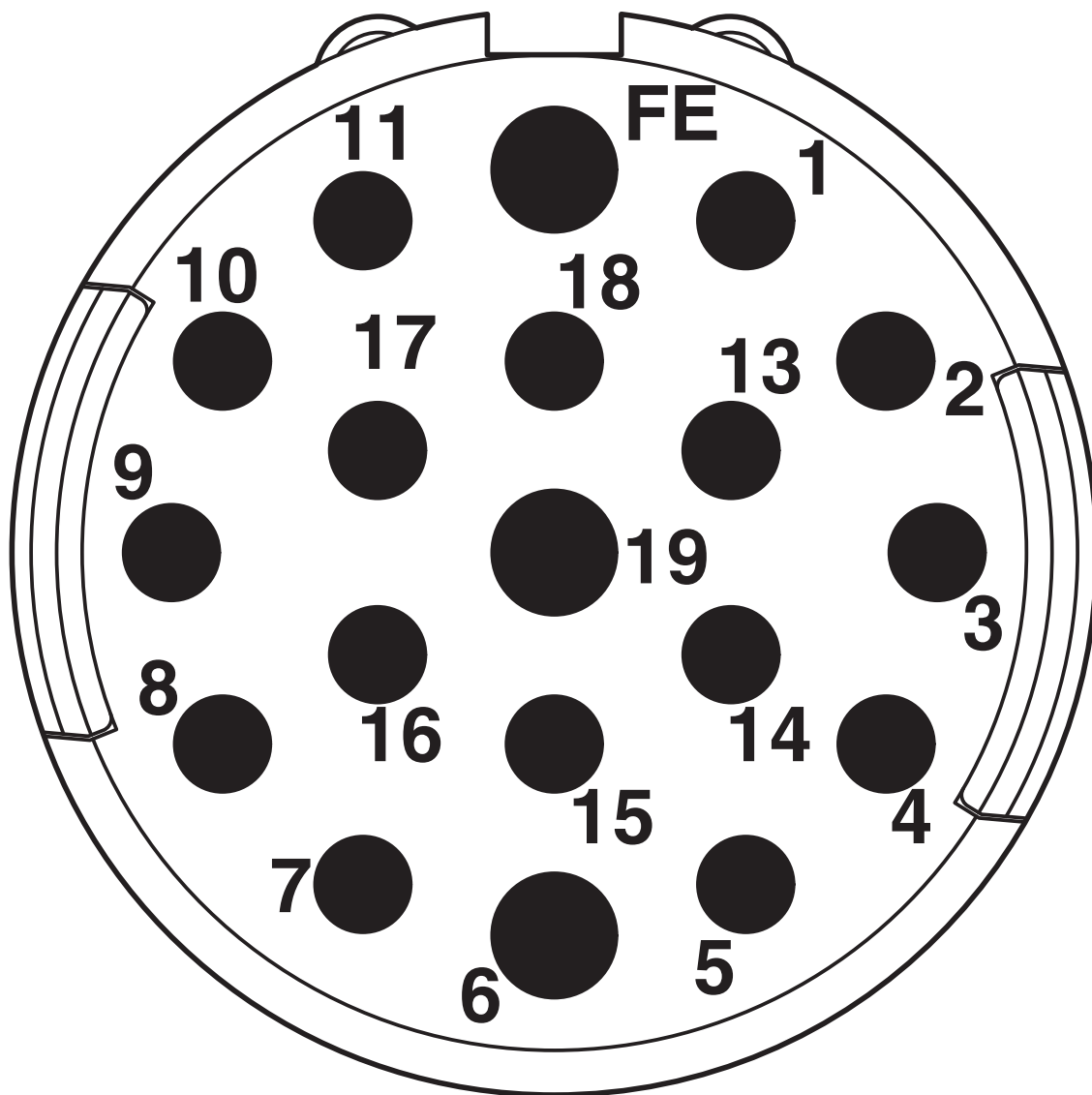
## Drawings

Schematic diagram



Connector pin assignment

Schematic diagram



Connector pin assignment

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1623841>

 <b>cUL Recognized</b> Approval ID: E335019-20141210				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
Power	48 V	6 A	18	-
Signal	48 V	5 A	18	-

 <b>UL Recognized</b> Approval ID: E335019-20141210				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
Power	48 V	10 A	18	-
Signal	48 V	8 A	18	-

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## Classifications

### ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

### ETIM

ETIM 9.0	EC002635
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: n/a)
SCIP	84023b08-d7e6-4fb1-885d-cb86663e2243

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