

1620213

https://www.phoenixcontact.com/us/products/1620213

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M23, Cable connector, series: CA, angled, shielded: yes, Screw locking mechanism, No. of pos.: 16+3, Direction of rotation: Standard, contact connection type: Pin, Solder connection, cable diameter range: 6 mm ... 10 mm, coding: N, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244088

## Your advantages

- · Angled cable outlet for confined spaces
- · Can be adapted to various applications, thanks to adjustable cable outlet direction
- · 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
- Solder connection: proven connection technology for various litz wires

### Commercial data

Item number	1620213
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB31
Product key	ABRAEC
Catalog page	Page 93 (C-2-2019)
GTIN	4046356818469
Weight per piece (including packing)	193.1 g
Weight per piece (excluding packing)	193.1 g
Customs tariff number	85366990
Country of origin	DE



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## Technical data

### Product properties

Product type	Circular connector (cable-side)
Data management status	
Article revision	05

### Connector

### Insulating body

Insulation body material	Coding	N
Contact surface material         Ni/Au           Insertion/withdrawal cycles         100           Connection method         Solder connection           Contact switching type         Pin           Application         Signal           Number of positions         19           Direction of rotation         Standard           Connection profile         16+3           Contact diameter Power contacts         1 mm²           Litz wire cross-section Power contacts max.         1 mm²           Rated current Power contacts         10 A           Rated voltage         48 V AC           74 V DC           Rated surge voltage         1.5 kV           Overvoltage category         III           Degree of pollution         3           Contact diameter Signal contacts         1 mm           Litz wire cross-section Signal contacts         1 mm²           Nominal current per signal contact         8 A	Insulation body material	PA 6.6
Insertion/withdrawal cycles  Connection method  Contact switching type  Application  Number of positions  Direction of rotation  Connection profile  Contact diameter Power contacts  Litz wire cross-section Power contacts  Rated current Power contacts  Rated surge voltage  Overvoltage category  Degree of pollution  Litz wire cross-section Signal contacts max.  I mm  100  Solder connection  Pin  Solder connection  Solder connection  Solder connection  Solder connection  Signal  19  19  19  10-4  1 mm²  1 mm²  10 A  Rated current Power contacts  10 A  Rated surge voltage  1.5 kV  Overvoltage category  III  Degree of pollution  3  Contact diameter Signal contacts  1 mm  Litz wire cross-section Signal contacts max.  1 mm²  Litz wire cross-section Signal contacts  1 mm²	Contact material	CuZn
Connection method         Solder connection           Contact switching type         Pin           Application         Signal           Number of positions         19           Direction of rotation         Standard           Connection profile         16+3           Contact diameter Power contacts         1.5 mm           Litz wire cross-section Power contacts max.         1 mm²           Rated current Power contacts         10 A           Rated voltage         48 V AC           74 V DC           Rated surge voltage         1.5 kV           Overvoltage category         III           Degree of pollution         3           Contact diameter Signal contacts         1 mm           Litz wire cross-section Signal contacts         1 mm²           Nominal current per signal contact         8 A	Contact surface material	Ni/Au
Contact switching type         Pin           Application         Signal           Number of positions         19           Direction of rotation         Standard           Connection profile         16+3           Contact diameter Power contacts         1.5 mm           Litz wire cross-section Power contacts max.         1 mm²           Rated current Power contacts         10 A           Rated voltage         48 V AC           74 V DC           Rated surge voltage         1.5 kV           Overvoltage category         III           Degree of pollution         3           Contact diameter Signal contacts         1 mm           Litz wire cross-section Signal contacts max.         1 mm²           Nominal current per signal contact         8 A	Insertion/withdrawal cycles	100
Application         Signal           Number of positions         19           Direction of rotation         Standard           Connection profile         16+3           Contact diameter Power contacts         1.5 mm           Litz wire cross-section Power contacts max.         1 mm²           Rated current Power contacts         10 A           Rated voltage         48 V AC           74 V DC           Rated surge voltage         1.5 kV           Overvoltage category         III           Degree of pollution         3           Contact diameter Signal contacts         1 mm           Litz wire cross-section Signal contacts max.         1 mm²           Nominal current per signal contact         8 A	Connection method	Solder connection
Number of positions         19           Direction of rotation         Standard           Connection profile         16+3           Contact diameter Power contacts         1.5 mm           Litz wire cross-section Power contacts max.         1 mm²           Rated current Power contacts         10 A           Rated voltage         48 V AC           74 V DC           Rated surge voltage         1.5 kV           Overvoltage category         III           Degree of pollution         3           Contact diameter Signal contacts         1 mm           Litz wire cross-section Signal contacts max.         1 mm²           Nominal current per signal contact         8 A	Contact switching type	Pin
Direction of rotation         Standard           Connection profile         16+3           Contact diameter Power contacts         1.5 mm           Litz wire cross-section Power contacts max.         1 mm²           Rated current Power contacts         10 A           Rated voltage         48 V AC           74 V DC           Rated surge voltage         1.5 kV           Overvoltage category         III           Degree of pollution         3           Contact diameter Signal contacts         1 mm           Litz wire cross-section Signal contacts max.         1 mm²           Nominal current per signal contact         8 A	Application	Signal
Connection profile         16+3           Contact diameter Power contacts         1.5 mm           Litz wire cross-section Power contacts max.         1 mm²           Rated current Power contacts         10 A           Rated voltage         48 V AC           74 V DC           Rated surge voltage         1.5 kV           Overvoltage category         III           Degree of pollution         3           Contact diameter Signal contacts         1 mm           Litz wire cross-section Signal contacts max.         1 mm²           Nominal current per signal contact         8 A	Number of positions	19
Contact diameter Power contacts  Litz wire cross-section Power contacts max.  Rated current Power contacts  Rated voltage  48 V AC  74 V DC  Rated surge voltage  Overvoltage category  Degree of pollution  Contact diameter Signal contacts  Litz wire cross-section Signal contacts max.  Nominal current per signal contact  1.5 mm  1 mm²  1 mm²  1 mm²  1 mm²  8 A	Direction of rotation	Standard
Litz wire cross-section Power contacts max.         1 mm²           Rated current Power contacts         10 A           Rated voltage         48 V AC           74 V DC         74 V DC           Rated surge voltage         1.5 kV           Overvoltage category         III           Degree of pollution         3           Contact diameter Signal contacts         1 mm           Litz wire cross-section Signal contacts max.         1 mm²           Nominal current per signal contact         8 A	Connection profile	16+3
Rated current Power contacts  Rated voltage  48 V AC 74 V DC  Rated surge voltage  1.5 kV  Overvoltage category  Degree of pollution  Contact diameter Signal contacts  Litz wire cross-section Signal contacts max.  Nominal current per signal contact  8 A	Contact diameter Power contacts	1.5 mm
Rated current Power Contacts  Rated voltage  48 V AC  74 V DC  Rated surge voltage  1.5 kV  Overvoltage category  Degree of pollution  3  Contact diameter Signal contacts  1 mm  Litz wire cross-section Signal contacts max.  Nominal current per signal contact  8 A	Litz wire cross-section Power contacts max.	1 mm²
74 V DC  Rated surge voltage 1.5 kV  Overvoltage category III  Degree of pollution 3  Contact diameter Signal contacts 1 mm  Litz wire cross-section Signal contacts max. 1 mm²  Nominal current per signal contact 8 A	Rated current Power contacts	10 A
Rated surge voltage  1.5 kV  Overvoltage category  III  Degree of pollution  Contact diameter Signal contacts  1 mm  Litz wire cross-section Signal contacts max.  Nominal current per signal contact  8 A	Rated voltage	48 V AC
Overvoltage category  Degree of pollution  Contact diameter Signal contacts  1 mm  Litz wire cross-section Signal contacts max.  Nominal current per signal contact  8 A		74 V DC
Degree of pollution 3  Contact diameter Signal contacts 1 mm  Litz wire cross-section Signal contacts max. 1 mm²  Nominal current per signal contact 8 A	Rated surge voltage	1.5 kV
Contact diameter Signal contacts  1 mm  Litz wire cross-section Signal contacts max.  Nominal current per signal contact  8 A	Overvoltage category	III
Litz wire cross-section Signal contacts max.  Nominal current per signal contact  8 A	Degree of pollution	3
Nominal current per signal contact  8 A	Contact diameter Signal contacts	1 mm
	Litz wire cross-section Signal contacts max.	1 mm²
Installation height 2000 m	Nominal current per signal contact	8 A
	Installation height	2000 m

#### Housing

<u> </u>	
Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)
Type of locking	Screw locking mechanism
Pg screw connection	none
Degree of protection (plugged in)	IP67
Thread type	M23

#### Seal



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External cable diameter	6 mm 10 mm
Seal material	NBR
nvironmental and real-life conditions	

### Er

#### Ambient conditions

Ambient temperature (operation)	-40 °C 125 °C
Ambient temperature (storage/transport)	15 °C 25 °C
Permissible humidity (storage/transport)	50 % 65 %

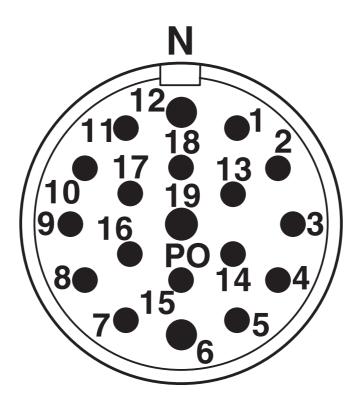


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# Drawings

Schematic diagram



Connector pin assignment



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## **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1620213

. <b>511</b>	<b>cUL Recognized</b> Approval ID: E335019-20	141210			
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Power		48 V	6 A	18 - 18	-
Signal		48 V	5 A	18 - 18	-

<b>UL Recognized</b> Approval ID: E335019-2	0141210			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Power	48 V	10 A	18 - 18	-
Signal	48 V	8 A	18 - 18	-

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# Classifications

UNSPSC 21.0

### **ECLASS**

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116
ETIM	
ETIM 9.0	EC002635
UNSPSC	

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: 7439-92-1)
SCIP	d48d7f45-a16e-4f14-8559-928b86f80dee

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