

1623722

https://www.phoenixcontact.com/us/products/1623722

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M40, Device connector front mounting, series: SB, angled rotatable, shielded: yes, for standard and SPEEDCON interlock, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, Axial O-ring, 4x Ø4,2, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244963

Your advantages

- Easy connection, thanks to infinitely adjustable cable outlet direction up to 310°
- · Transmission of signals, data, and power in just a single connector
- · CAT5 data interface for up to 100 Mbps
- · Mechanical coding reliably prevents incorrect connections
- Safe use in the field, thanks to high degree of protection
- Consistent EMC protection for reliable connection solutions in the industrial environment

Commercial data

Item number	1623722
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB33
Product key	ABRCEM
Catalog page	Page 128 (C-2-2019)
GTIN	4055626194936
Weight per piece (including packing)	602.7 g
Weight per piece (excluding packing)	602.7 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Notes

Order information:	Crimp contacts, 4 x Ø 0.8 mm, 4 x Ø 1 mm, 5 x Ø 3.6 mm, order separately
fety note	
Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
	 WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.
	 WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.
	 The products are suitable for applications in plant, controller, and electrical device engineering.
	 When operating the connectors in outdoor applications, they must be separately protected against environmental influences.
	 Assembled products may not be manipulated or improperly opened.
	 Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products).
	 When using the product in direct connection with third-party manufacturers, the user is responsible.
	 For operating voltages > 50 V AC, conductive connector housings must be grounded
	 VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector
	Observe the corresponding technical data. You will find information: On the product On the packing label In the supplied documentation Online at phoenixcontact.com/products under the product
	Only use tools recommended by Phoenix Contact
	 The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.
	 Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products
	Operate the connector only when it is fully plugged in and

interlocked.

• Ensure that when laying the cable, the tensile load on the



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	connectors does not exceed the upper limit specified in the standards.
	Observe the minimum bending radius of the cable. Lay the cable without twisting it.
	 The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).
Product properties	
Product type	Circular connectors (device side)

Connector

Insulating body

Connection method	Crimp connection
Contact switching type	Pin
Application	Hybrid
Number of positions	13
Direction of rotation	Standard
Contact diameter Power contacts	3.6 mm
Litz wire cross-section Power contacts min.	1 mm²
Litz wire cross-section Power contacts max.	10 mm²
Rated current Power contacts	70 A
Rated voltage	630 V AC
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	3
Contact diameter Signal contacts	1 mm
Litz wire cross-section Signal contacts min.	0.06 mm²
Litz wire cross-section Signal contacts max.	1.5 mm²
Nominal current per signal contact	8 A
Rated voltage Signal contact	500 V
Rated surge voltage	1.5 kV
Overvoltage category	III
Degree of pollution	3
Contact diameter Data contacts	0.8 mm
Litz wire cross-section Data contacts min.	0.08 mm²
Litz wire cross-section Data contacts max.	0.5 mm²
Rated current per data contact at 25°C	3.6 A
Rated voltage Data contacts	50 V
Rated surge voltage	1.5 kV

Housing



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Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)
Type of locking	for standard and SPEEDCON interlock
Pg screw connection	none
Degree of protection (plugged in)	IP68/IP69K
Thread type	M40

Environmental and real-life conditions

Ambient conditions

A 1: 1:	10.00 145.00 / 1 1:
Ambient temperature (operation)	-40 °C 115 °C (see derating curve)

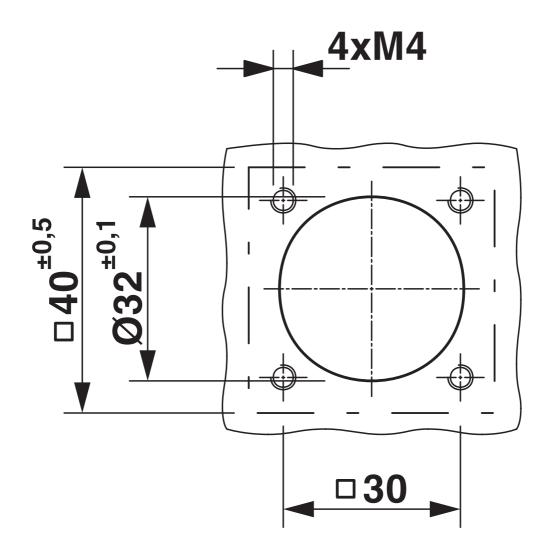


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Drawings

Dimensional drawing

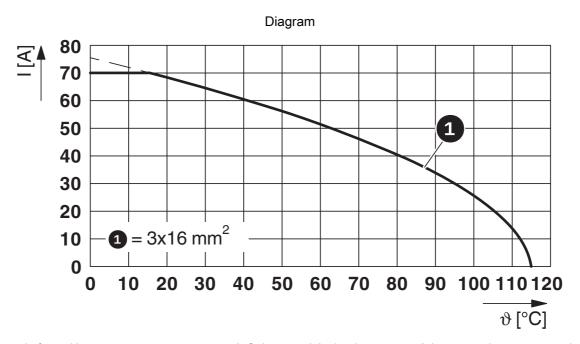


Installation dimensions



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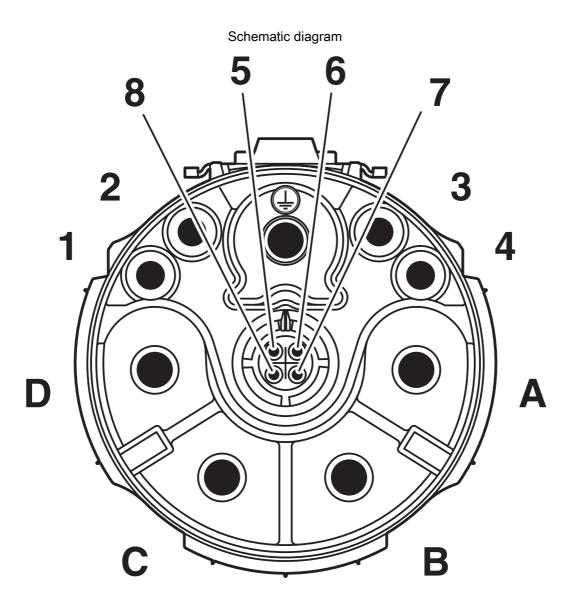


I = current strength, ϑ = ambient temperature, power contacts A–C: 3x up to 70 A, signal contacts: 4x 2 A constant, data contacts: no load



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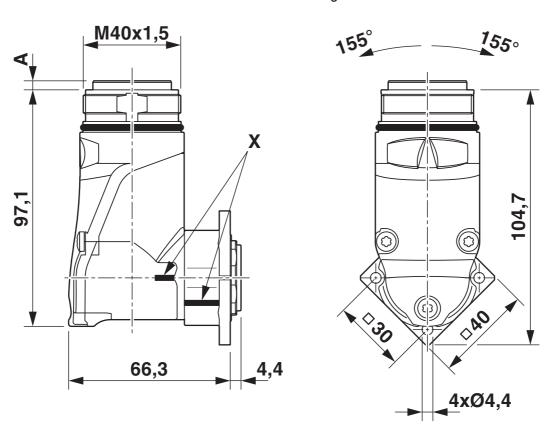
Pin assignment of pin CAT5, coding 2



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Dimensional drawing



Pin version: dimension A = 3.7 mm, socket version: dimension A = 0.05 mm, X = reference position for angle of rotation



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1623722

c 711 us	cULus Recognized Approval ID: E468743-20170914				
		Nominal voltage $\mathbf{U}_{\mathbf{N}}$	Nominal current I _N	Cross section AWG	Cross section mm ²
Power		600 V	35 A	- 8	-
Signal		500 V	4 A	- 16	-
Data		30 V	1 A	- 22	-

cUL Recognized Approval ID: E153698-2	cUL Recognized Approval ID: E153698-20190718			
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
Power	600 V	28 A	- 10	-
Signal	500 V	4 A	- 1,5	-
Data	50 V	1 A	- 0,34	-

UL Recognized Approval ID: E153698-2	SU UL Recognized Approval ID: E153698-20190718			
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
Power	600 V	70 A	- 10	-
Signal	500 V	4 A	- 1,5	-
Data	50 V	1 A	- 0,34	-

cULus Recognized



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Classifications

ECLASS

	ECLASS-11.0	27440102
	ECLASS-12.0	27440116
	ECLASS-13.0	27440116
ET	ТІМ	
	ETIM 9.0	EC002635
UN	NSPSC	
	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: 7439-92-1)
SCIP	680dad0e-55c0-49a4-9837-1b38f380fcf5



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Accessories

SF-08KP010 - Crimp contact

1621574

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Crimp contact, Pin, turned, contact diameter: 0.8 mm, crimp range: $0.08 \text{ mm}^2 \dots 0.25 \text{ mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244458

SF-08KP020 - Crimp contact

1621575

https://www.phoenixcontact.com/us/products/1621575



Crimp contact, Pin, turned, contact diameter: 0.8 mm, crimp range: 0.34 mm 2 ... 0.5 mm 2 , Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244459



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SB-10KP001 - Crimp contact

1623607

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Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range: 0.06 $\mathrm{mm}^2\dots$ 0. $25~\mathrm{mm}^2$

SB-10KP002 - Crimp contact

1623611

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Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range: 0.34 mm^2 ... 0. 5 mm^2



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SB-10KP003 - Crimp contact

1623612

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Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range: 0.5 $\mathrm{mm}^2 \dots$ 1 mm^2

SB-10KP004 - Crimp contact

1623613

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Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range: 1 mm^2 ... 1.5 mm^2 , Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244925



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SB-36KP002 - Crimp contact

1623383

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Crimp contact, Pin, turned, contact diameter: 3.6 mm, crimp range: $2.5 \text{ mm}^2 \dots 4 \text{ mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244894

SB-36KP003 - Crimp contact

1623384

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Crimp contact, Pin, turned, Single contact, contact diameter: 3.6 mm, crimp range: $4 \text{ mm}^2 \dots 6 \text{ mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244894



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SB-36KP004 - Crimp contact

1623385

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Crimp contact, Pin, turned, Single contact, contact diameter: 3.6 mm, crimp range: $10~\text{mm}^2$... $10~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244895

SB-Z0001 - Metal protective cap

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Metal protective cap, Screw locking mechanism, M40, degree of protection: IP67/68/69K, series: SM, SB, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244989



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SB-Z0002 - Metal protective cap

1623828

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Metal protective cap, Screw locking mechanism, M40, degree of protection: IP67, series: SM, SB, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244990

PROT-M40-PW-OT-IP20 - Plastic protective cap

1577212

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Plastic protective cap, M40, degree of protection: IP20, series: SM, SB



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SM-Z0028 - Color coding

1620627

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Color coding, color: green



SM-Z0029 - Color coding

1620628

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Color coding, color: orange





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SM-Z0030 - Color coding

1620629

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Color coding, color: black



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