

1623726

https://www.phoenixcontact.com/us/products/1623726

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M40, Device connector front mounting, series: SB, straight, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 8+4+PE, Direction of rotation: Standard, contact connection type: Socket, Crimp connection, Axial O-ring, 4x Ø4,2, flange dimensions: 40 mm x 40 mm, coding: Signal, coding 2, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244966

Your advantages

- · All housing can be fitted with pin or socket contacts
- · A total of eight contacts are available for signal transmission
- · 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	1623726
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB33
Product key	ABRCEL
Catalog page	Page 128 (C-2-2019)
GTIN	4055626195117
Weight per piece (including packing)	205.3 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Notes

Crimp contacts, 8 x Ø 1 mm, 5 x Ø 3.6 mm, order separately
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 connectors does not exceed the upper limit specified in the



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Litz wire cross-section Data contacts max.

	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	
Protection against electric shock	IEC 61984
Coding	Signal, coding 2
Connection method	Crimp connection
Contact switching type	Socket
Application	Hybrid
Number of positions	13
Direction of rotation	Standard
Connection profile	8+4+PE
Contact diameter Power contacts	3.6 mm
Litz wire cross-section Power contacts min.	1 mm²
Litz wire cross-section Power contacts max.	16 mm²
Rated current Power contacts	70 A
Note	for max. connection cross section
Rated voltage	630 V AC
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	3
Rated voltage (II/3) power contact	850 V DC
Rated voltage (III/3) power contact	630 V AC
Contact diameter Signal contacts	1 mm
Litz wire cross-section Signal contacts min.	0.06 mm ²
Litz wire cross-section Signal contacts max.	1.5 mm ²
Nominal current per signal contact	8 A
Note	for max. connection cross section
Rated surge voltage	6 kV
Rated voltage (III/3) signal contact	500 V
Contact diameter Data contacts	1 mm
Litz wire cross-section Data contacts min.	0.06 mm²

1.5 mm²



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Rated current per data contact at 25°C	8 A
Note	for max. connection cross section
Rated voltage Data contacts	50 V
Rated surge voltage	1.5 kV
Installation height	2000 m

Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)
Flange dimensions	40 mm x 40 mm
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

Ambient temperature (operation) -40 °C 115 °C (see derating curve)	Ambient temperature (operation)
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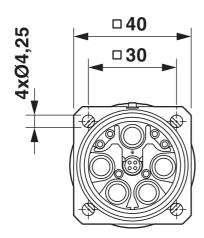


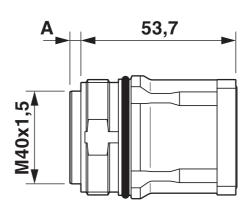
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Drawings

Dimensional drawing





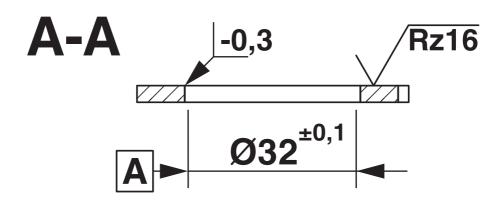
Pin version: dimension A = 3.8 mm, socket version: dimension A = 0.15 mm

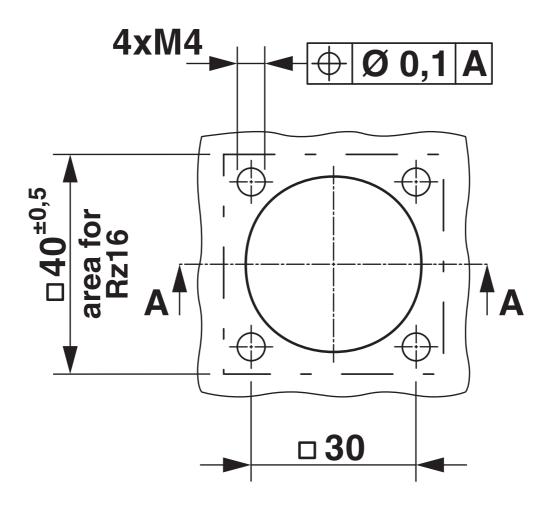


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Dimensional drawing





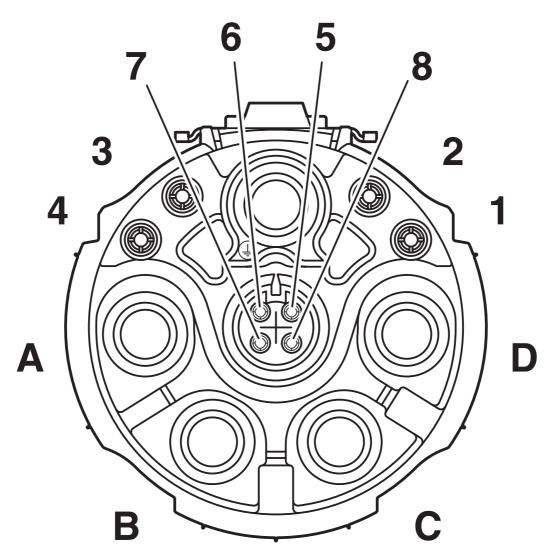
Installation dimensions



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Schematic diagram

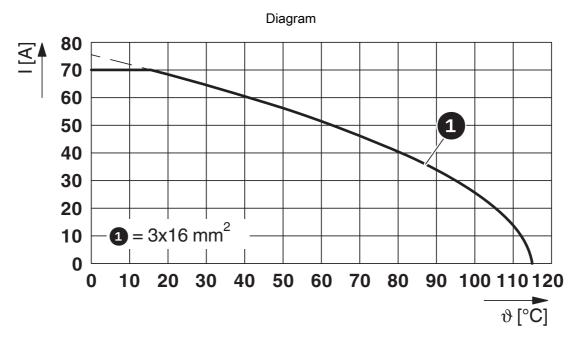


Pin assignment of socket signal, DC coding



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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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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1623726

CUL Recognized Approval ID: E153698-20190718				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
Power	600 V	24 A	6 - 16	-
Signal	500 V	4 A	1,5 - 1,5	-
Data	50 V	1 A	0,34 - 0,34	-

UL Recognized Approval ID: E153698-20190718				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
Power	600 V	32 A	6 - 10	-
Signal	500 V	4 A	1,5 - 1,5	-
Data	50 V	1 A	0,34 - 0,34	-

cULus Recognized



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Classifications

ECLASS

UNSPSC 21.0

202.00		
	ECLASS-11.0	27440102
	ECLASS-12.0	27440116
	ECLASS-13.0	27440116
ETIM		
	ETIM 9.0	EC002635
UN	NSPSC	

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	888145ae-339d-4fcb-b09f-f7495ec884f1



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Accessories

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

SB-Z0002 - Metal protective cap

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https://www.phoenixcontact.com/us/products/1623828



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



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ST-10KS010 - Crimp contact

1618239

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Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: $0.06~\text{mm}^2$... $0.25~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243216

ST-10KS035 - Crimp contact

1618464

https://www.phoenixcontact.com/us/products/1618464



Crimp contact, Socket, turned, contact diameter: 1 mm, crimp range: $0.25~\text{mm}^2$... 1 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1~%) item no.: 1243216



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

1577212

https://www.phoenixcontact.com/us/products/1577212



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

SB-10KS001 - Crimp contact

1623603

https://www.phoenixcontact.com/us/products/1623603



Crimp contact, Socket, turned, contact diameter: 1 mm, crimp range: $0.06~\text{mm}^2$.. $0.25~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1~%) item no.: 1244919



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SB-10KS002 - Crimp contact

1623604

https://www.phoenixcontact.com/us/products/1623604



Crimp contact, Socket, turned, contact diameter: 1 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.: 1244919

SB-10KS003 - Crimp contact

1623605

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Crimp contact, Socket, turned, contact diameter: 1 mm, crimp range: 0.5 mm^2 ... 1 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244919



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SB-10KS004 - Crimp contact

1623606

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Crimp contact, Socket, turned, 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.: 1244920

SB-36KS002 - Crimp contact

1623378

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Crimp contact, Socket, turned, contact diameter: 3.6 mm, crimp range: 2.5 mm 2 . .. 4 mm 2 , Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244890



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SB-36KS003 - Crimp contact

1623379

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Crimp contact, Socket, turned, Single contact, contact diameter: 3.6 mm, crimp range: $4~\text{mm}^2$... $6~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244890

SB-36KS004 - Crimp contact

1623380

https://www.phoenixcontact.com/us/products/1623380



Crimp contact, Socket, 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.: 1244891



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SB-36KS005 - Crimp contact

1623381

https://www.phoenixcontact.com/us/products/1623381



Crimp contact, Socket, turned, Single contact, contact diameter: 3.6 mm, crimp range: $16~\text{mm}^2$... $16~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244892

SM-Z0028 - Color coding

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Color coding, color: green





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SM-Z0029 - Color coding

1620628

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Color coding, color: orange



SM-Z0030 - Color coding

1620629

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Color coding, color: black



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