1623360

https://www.phoenixcontact.com/us/products/1623360



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M40, Coupler connector, series: SB, straight long, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 8+4+PE, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, cable diameter range: 14 mm ... 20.5 mm, coding: Signal, coding 1, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244879

### 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	1623360
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB33
Product key	ABRCEG
Catalog page	Page 127 (C-2-2019)
GTIN	4055626194745
Weight per piece (including packing)	465.3 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85366990
Country of origin	DE

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### Technical data

Order information:	Crimp contacts, 8 x Ø 1 mm, 5 x Ø 3.6 mm, order separately
afety note	
Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper u 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.
	<ul> <li>WARNING: Only electrically qualified personnel may install operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basic electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indica that only personnel familiar with electrical engineering are allowed to install and operate the product.</li> </ul>
	<ul> <li>The products are suitable for applications in plant, controlle and electrical device engineering.</li> </ul>
	<ul> <li>When operating the connectors in outdoor applications, the must be separately protected against environmental influence</li> </ul>
	<ul> <li>Assembled products may not be manipulated or improperly opened.</li> </ul>
	<ul> <li>Only use mating connectors that are specified in the technic data of the standards listed (e.g. the ones listed in the produc accessories online at phoenixcontact.com/products).</li> </ul>
	<ul> <li>When using the product in direct connection with third-party manufacturers, the user is responsible.</li> </ul>
	<ul> <li>For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li> </ul>
	VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14. are applicable when combining several circuits in a cable and connector
	Observe the corresponding technical data. You will find information: o On the product o On the packing label o In the supplied documentation o Online at phoenixcontact.com/products under the product
	Only use tools recommended by Phoenix Contact
	<ul> <li>The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.</li> </ul>
	<ul> <li>Use a protective cap to protect connectors that are not in us The suitable accessories are available online in the accessor section of the product at phoenixcontact.com/products</li> </ul>
	<ul> <li>Operate the connector only when it is fully plugged in and interlocked.</li> </ul>
	<ul> <li>Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the</li> </ul>



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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 connector (cable-side)

#### Connector

oding	Signal, coding 1
Connection method	Crimp connection
Contact switching type	Pin
Application	Hybrid
Number of positions	13
Direction of rotation	Standard
Connection profile	8+4+PE
Contact diameter Power contacts	3.6 mm
itz wire cross-section Power contacts min.	2.5 mm <sup>2</sup>
_itz 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
_itz wire cross-section Signal contacts min.	0.06 mm <sup>2</sup>
_itz wire cross-section Signal contacts max.	1.5 mm <sup>2</sup>
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
itz wire cross-section Data contacts min.	0.06 mm <sup>2</sup>
itz wire cross-section Data contacts max.	1.5 mm <sup>2</sup>
Rated current per data contact at 25°C	8 A



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Note	for max. connection cross section
Rated voltage Data contacts	50 V
Rated surge voltage	1.5 kV
Installation height	2000 m
ousing	
Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GE Zn)
Type of locking	for standard and SPEEDCON interlock
Pg screw connection	none
Degree of protection (plugged in)	IP68/IP69K
Thread type	M40
eal	
External cable diameter	14 mm 20.5 mm
Seal material	FKM

Ambient conditions

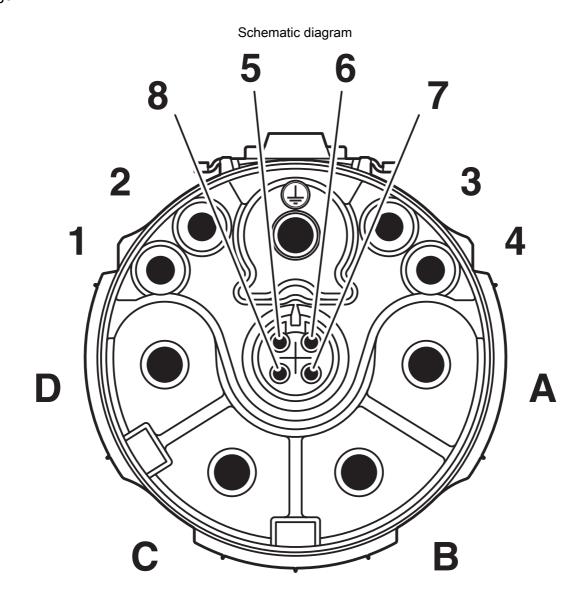
Ambient temperature (operation)	-40 °C 115 °C (see derating curve)
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### Drawings



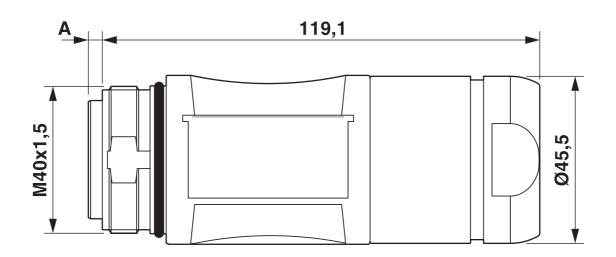
Pin assignment of pin signal, coding 1



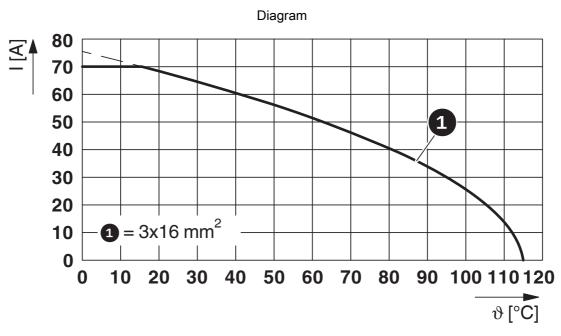
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#### Dimensional drawing



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



I = current strength,  $\vartheta$  = 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/1623360

Approval ID: E153698-20190718				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Power	600 V	24 A	- 16	-
Signal	500 V	4 A	- 1,5	-
Data	50 V	1 A	- 0,34	-

<b>UL Recognized</b> Approval ID: E153698-2	Approval ID: E153698-20190718			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Power	600 V	32 A	- 16	-
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

#### ETIM

	ETIM 9.0	EC002635
UN	UNSPSC	
	UNSPSC 21.0	39121400

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### Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(b), 6(b)-II
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	e5f8c855-6b56-4b75-9320-c2286dbcb2f7

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#### Accessories

#### SB-Z0001 - Metal protective cap

1623827 https://www.phoenixcontact.com/us/products/1623827



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

#### ST-10KP010 - Crimp contact

#### 1618255 https://www.phoenixcontact.com/us/products/1618255



Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range:  $0.06 \text{ mm}^2 \dots 0.25 \text{ mm}^2$ , Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243215

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ST-10KP035 - Crimp contact

#### 1618458

https://www.phoenixcontact.com/us/products/1618458



Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range:  $0.25 \text{ mm}^2 \dots 1 \text{ mm}^2$ , Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243215

#### SM-Z0003 - Square mounting flange with O-ring

1607935 https://www.phoenixcontact.com/us/products/1607935



Square mounting flange with O-ring, Axial O-ring, 4x Ø4,2, series: SM

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SM-Z0004 - Square mounting flange

1607937

https://www.phoenixcontact.com/us/products/1607937

Square mounting flange, 4x Ø4,2, series: SM



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

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SB-10KP001 - Crimp contact

#### 1623607

https://www.phoenixcontact.com/us/products/1623607



Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range: 0.06  $\text{mm}^2 \dots 0.25 \text{ mm}^2$ 

#### SB-10KP002 - Crimp contact

1623611 https://www.phoenixcontact.com/us/products/1623611



Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range: 0.34  $\text{mm}^2$  ... 0. 5  $\text{mm}^2$ 

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SB-10KP003 - Crimp contact

#### 1623612

https://www.phoenixcontact.com/us/products/1623612



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

#### SB-10KP004 - Crimp contact

1623613 https://www.phoenixcontact.com/us/products/1623613



Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range:  $1 \text{ mm}^2 \dots 1.5 \text{ mm}^2$ , 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

https://www.phoenixcontact.com/us/products/1623383



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 https://www.phoenixcontact.com/us/products/1623384



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

https://www.phoenixcontact.com/us/products/1623385



Crimp contact, Pin, turned, Single contact, contact diameter: 3.6 mm, crimp range: 10 mm<sup>2</sup> ... 10 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244895

#### SB-36KP005 - Crimp contact

1623386 https://www.phoenixcontact.com/us/products/1623386



Crimp contact, Pin, turned, Single contact, contact diameter: 3.6 mm, crimp range: 16 mm<sup>2</sup> ... 16 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244896

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SM-Z0025 - Color coding

1620558 https://www.phoenixcontact.com/us/products/1620558

Color coding, color: green



#### SM-Z0026 - Color coding

1620559 https://www.phoenixcontact.com/us/products/1620559

Color coding, color: orange



#### 1623360

https://www.phoenixcontact.com/us/products/1623360



SM-Z0027 - Color coding

#### 1620560

https://www.phoenixcontact.com/us/products/1620560

Color coding, color: black



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