

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)



Cable connector, SB, straight long, shielded: yes, SPEEDCON locking, M40, No. of pos.: 8+4+PE, type of contact: Socket, Crimp connection, cable diameter range: 20.5 mm ... 26.5 mm

Your advantages

- All housing can be fitted with pin or socket contacts
- A total of eight contacts are available for signal transmission
- Reduced connection time with SPEEDCON fast locking system
- 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



Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 194066
GTIN	4055626194066

Technical data

Temperature range

Ambient temperature	-40 °C 130 °C
---------------------	---------------

Standards and Regulations

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



Technical data

Standards and Regulations

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: 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
• 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 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).

Data of the insulating body

Protection against electric shock	IEC 61984
Coding	Signal, coding 1
Contact connection method	Crimp connection
Type of contacts	Socket
Application	Hybrid
Number of positions	13
Direction of rotation	Standard
Contact diameter of power contacts	3.6 mm
Litz wire cross section of power contacts min.	1 mm ²
Litz wire cross section of power contacts max.	16 mm ²



Technical data

Data of the insulating body

Rated current for power contacts	70 A
Note	for max. connection cross section
Rated voltage of power contact	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 of signal contacts	1 mm
Litz wire cross section of signal contacts min.	0.06 mm ²
Litz wire cross section of 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 mm ²
Litz wire cross section, data contacts, max.	1.5 mm ²
Rated current of each data contact at 25°C	8 A
Note	for max. connection cross section
Rated surge voltage	1.5 kV
Installation height	2000 m

Housing data

Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)	
Type of locking	SPEEDCON locking	
Degree of protection (when plugged in)	IP68/IP69K	
Thread type	M40	

Cable seal data

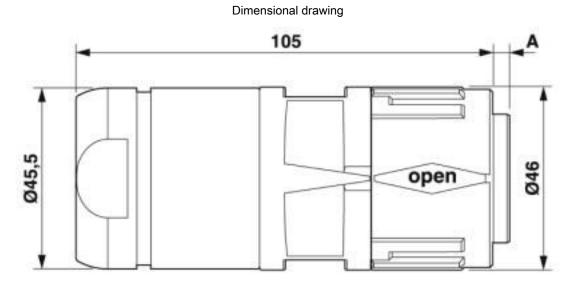
Cable diameter	20.5 mm 26.5 mm
Sealing material	FKM

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

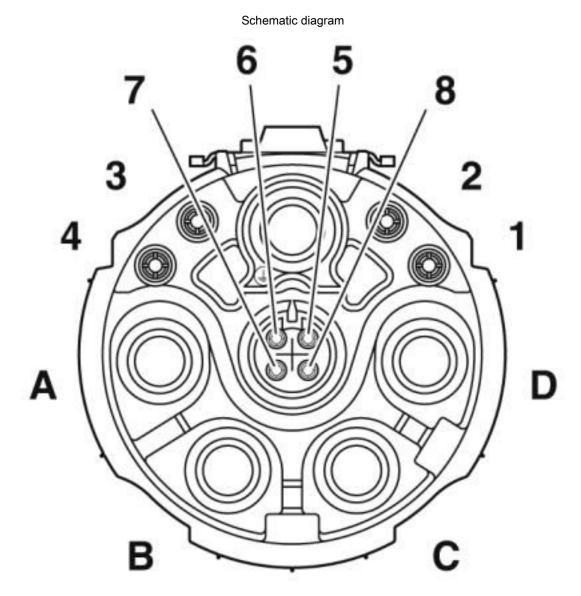
Drawings





Pin version: dimension A = 4.05 mm, socket version: dimension A = 0.4 mm





Pin assignment of socket signal, coding 1

Classifications

eCl@ss

eCl@ss 10.0.1	27440102
eCl@ss 4.0	27260700
eCl@ss 4.1	27260700
eCl@ss 5.0	27260700
eCl@ss 5.1	27260700
eCl@ss 6.0	27260700
eCl@ss 7.0	27440102
eCl@ss 8.0	27440102



Classifications

eCl@ss			
eCl@ss 9.0		27440102	
Approvals			
Approvals			
Approvals			
EAC			
Ex Approvals			
Approval details			
EAC	EAC		B.01687
Accessories			
Accessories			
Crimp contact			
Crimp contact - ST-10	KS010 - 1618239		
State	Crimp contact, turned, Sin	ngle contact, contact diameter: 1 mm, crimp range: 0.06 mm² 0.25 mm²	
Crimp contact - ST-10	KS035 - 1618464		



Crimp contact, turned, contact diameter: 1 mm, crimp range: 0.25 mm² ... 1 mm²

09/11/2020 Page 6 / 9



Accessories

Crimp contact - SB-10KS001 - 1623603



Crimp contact, turned, contact diameter: 1 mm, crimp range: 0.06 mm² ... 0.25 mm²

Crimp contact - SB-10KS002 - 1623604



Crimp contact, turned, contact diameter: 1 mm, crimp range: 0.34 mm² ... 0.5 mm²

Crimp contact - SB-10KS003 - 1623605



Crimp contact, turned, contact diameter: 1 mm, crimp range: 0.5 mm² ... 1 mm²

Crimp contact - SB-10KS004 - 1623606



Crimp contact, turned, contact diameter: 1 mm, crimp range: 1 mm² ... 1.5 mm²

Crimp contact - SB-36KS002 - 1623378



Crimp contact, turned, contact diameter: 3.6 mm, crimp range: 2.5 mm² ... 4 mm²



Accessories

Crimp contact - SB-36KS003 - 1623379



Crimp contact, turned, Single contact, contact diameter: 3.6 mm, crimp range: 4 mm² ... 6 mm²

Crimp contact - SB-36KS004 - 1623380



Crimp contact, turned, Single contact, contact diameter: 3.6 mm, crimp range: 10 mm² ... 10 mm²

Crimp contact - SB-36KS005 - 1623381



Crimp contact, turned, Single contact, contact diameter: 3.6 mm, crimp range: 16 mm² ... 16 mm²

Mounting material

Square mounting flange with O-ring - SM-Z0003 - 1607935



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

Square mounting flange - SM-Z0004 - 1607937



Square mounting flange, 4x Ø4,2



Accessories

Color-coding - SM-Z0025 - 1620558



Color-coding, color: green

Color-coding - SM-Z0026 - 1620559



Color-coding, color: orange

Color-coding - SM-Z0027 - 1620560



Color-coding, color: black

Protective cover

Protective cap - SM-Z0031 - 1624199



Plastic protection cap for connectors with M40 SPEEDCON knurled nut

Phoenix Contact 2020 © - all rights reserved http://www.phoenixcontact.com

PHOENIX CONTACT GmbH & Co. KG Flachsmarktstr. 8 32825 Blomberg Germany Tel. +49 5235 300 Fax +49 5235 3 41200 http://www.phoenixcontact.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Circular Metric Connectors category:

Click to view products by Phoenix Contact manufacturer:

Other Similar products are found below :

600X518037X 6STD15PCR99B70A 8R4000A16M020 8R5000A16M005 1200910002 1203580030 1200910008 1200910011 1300140094 130203-0054 1300140026 1300150099 RF-12S1N8A90DU 1-3637-600-5205 1612618 21036836414 8R4006A16M010 1604232 1R3006A20M005 RF-12P1N8A90DU 41-40011 42-00006 42-01015 4-22279-4 4-22281-1 4-22284-9 43-00113 43-01088 43-01203 41-40013 42-00008 43-00343 43-01026 43-01162 43-01173 43-10000 XS3P-M421-2 600X518050X SACC-DSI-FS-5P-PG9-L180 SC 8R5006A16M020 8R5006A16M005 8R4000A16M010 6-22279-3 1605332 N03FA03144 1300140077 43-16213 43-01338 XS2RD4265 XS2R-D426-1