Coupler connector - SB-8ESCA8A9L32S - 1623339

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Coupling connector, SB, straight long, shielded: yes, for standard and SPEEDCON interlock, M40, No. of pos.: 4+4+4+PE / 3+N+PE, type of contact: Socket, Crimp connection, cable diameter range: 9 mm ... 14 mm

Your advantages

- 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

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 194486
GTIN	4055626194486
Weight per Piece (excluding packing)	480.000 g
Custom tariff number	85366990
Country of origin	Germany

Technical data

Temperature range

Ambient temperature (operation)	-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.

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Technical data

Standards and Regulations

	• 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: 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
Data rate	100 Mbps

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Technical data

Data of the insulating body

Coding	CAT5, 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 mm²
Litz wire cross section of power contacts max.	16 mm²
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 mm²
Litz wire cross section of signal contacts max.	1.5 mm²
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	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 of each data contact at 25°C	3.6 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	for standard and SPEEDCON interlock
Degree of protection (when plugged in)	IP68/IP69K
Thread type	M40

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Technical data

Cable seal data

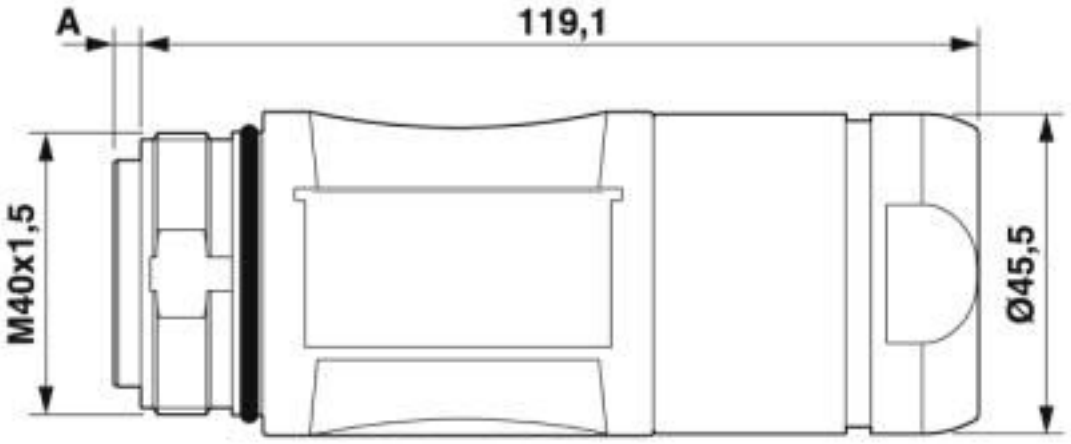
Cable diameter	9 mm ... 14 mm
Sealing material	FKM

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

Dimensional drawing



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

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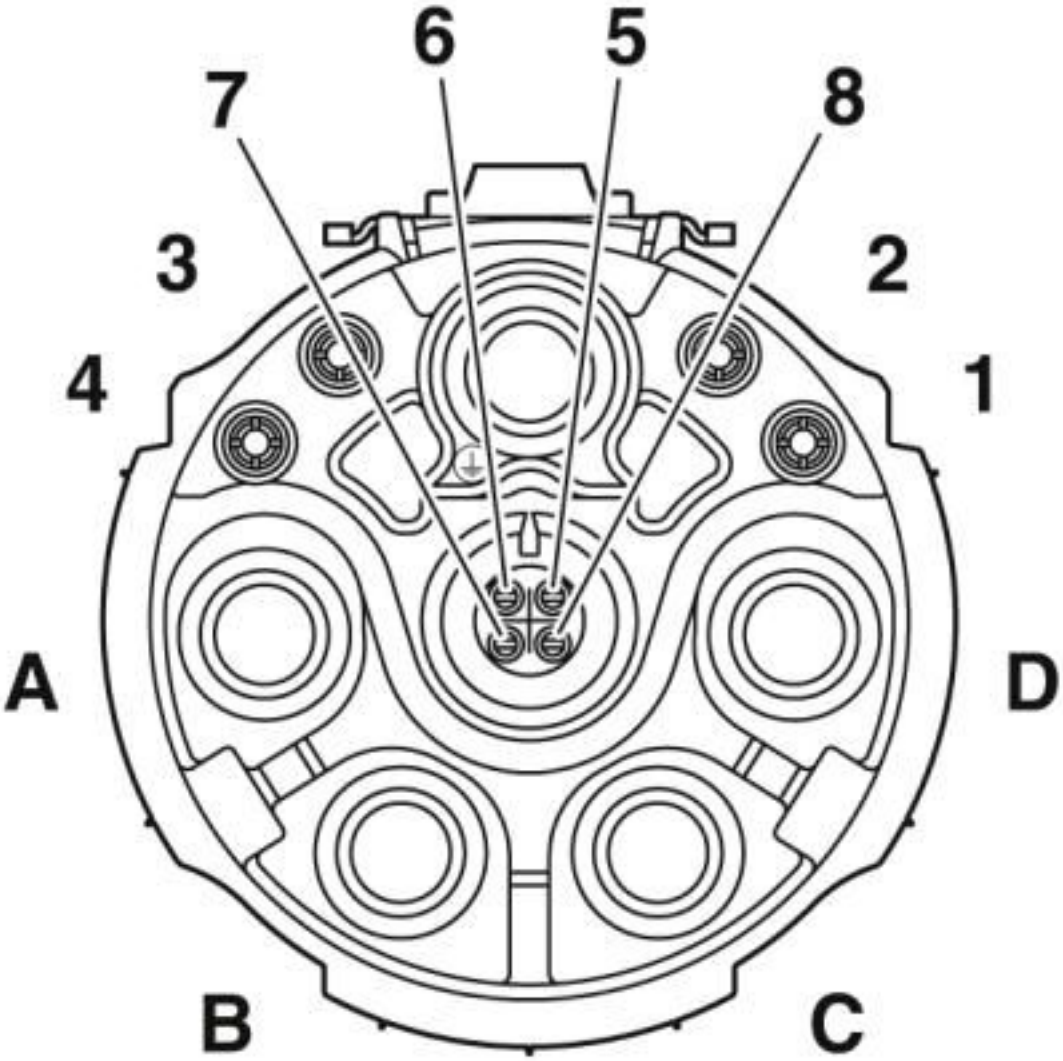
Schematic diagram



Pin assignment of socket CAT5, 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

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Classifications

eCl@ss

eCl@ss 6.0	27260700
eCl@ss 7.0	27440102
eCl@ss 8.0	27440102
eCl@ss 9.0	27440102

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	20170915-E468743

Nominal voltage UN	600 V
Nominal current IN	50 A
mm²/AWG/kcmil	6

cUL Recognized	c	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	20170915-E468743

Nominal voltage UN	600 V
Nominal current IN	42 A
mm²/AWG/kcmil	6

EAC		B.01687

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Approvals

cULus Recognized

Accessories

Accessories

Cable by the meter

Hybrid cable - KC-88014448/1,00 - 1627298

Hybrid cable, length: 1 m, color of outer sheath: orange RAL 2003

Hybrid cable - KC-88014448/20,00 - 1627299

Hybrid cable, length: 20 m, color of outer sheath: orange RAL 2003

Hybrid cable - KC-88014450-01,00 - 1629279

Hybrid cable, length: 1 m, color of outer sheath: orange RAL 2003

Hybrid cable - KC-88014450-50,00 - 1629280

Hybrid cable, length: 50 m, color of outer sheath: orange RAL 2003

Crimp contact

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Accessories

Crimp contact - SF-08KS010 - 1621571

Crimp contact, turned, contact diameter: 0.8 mm, crimp range: 0.08 mm² ... 0.25 mm²

Crimp contact - SF-08KS020 - 1621573

Crimp contact, turned, contact diameter: 0.8 mm, crimp range: 0.34 mm² ... 0.5 mm²

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

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Accessories

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

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

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Accessories

Protective cap - SM-Z0001 - 1605866

Plastic protection cap for connectors with M40 external thread

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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

Color-coding - SM-Z0025 - 1620558

Color-coding, color: green

Color-coding - SM-Z0026 - 1620559

Color-coding, color: orange

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Accessories

Color-coding - SM-Z0027 - 1620560

Color-coding, color: black

Protective cover

Metal protective cap - SB-Z0001 - 1623827

Metal protection cap for M40 connectors with external thread

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