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Coupling connector, SH, straight long, shielded: yes, for standard and SPEEDCON interlock, M23, No. of pos.: 8+4+PE, type of contact: Socket, Crimp connection, cable diameter range: 15 mm ... 18 mm

Your advantages

- ☑ All housing can be fitted with pin or socket contacts
- 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 046356 936965
GTIN	4046356936965

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 relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.



Technical data

Standards and Regulations

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
Ensure that the protective or functional ground has been properly connected.
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
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.
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

Note	Order information: Crimp contacts, 8 x Ø 1 mm, 5 x Ø 2 mm, order separately
Protection against electric shock	IEC 61984 and VDE 0623
Coding	N
Insulator material	PA 6.6
Insertion/withdrawal cycles mechanical	100
Contact connection method	Crimp connection
Type of contacts	Socket
Application	Hybrid
Number of positions	13
Contact diameter of power contacts	2 mm
Litz wire cross section of power contacts min.	0.25 mm ²
Litz wire cross section of power contacts max.	4 mm²
Rated current for power contacts	30 A
Rated surge voltage	6 kV
Rated voltage (II/3) power contact	850 V DC



Technical data

Data of the insulating body

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 mm²
Nominal current per signal contact	8 A
Note	for max. connection cross section
Rated surge voltage	1.5 kV
Rated voltage (III/3) signal contact	50 V
Note	for max. connection cross section
Installation height	2000 m

Housing data

Note	The suitability for assembly must be checked when fully assigned with maximum wire cross sections.
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)	IP67
	IP68
Thread type	M23

Cable seal data

Cable diameter	15 mm 18 mm

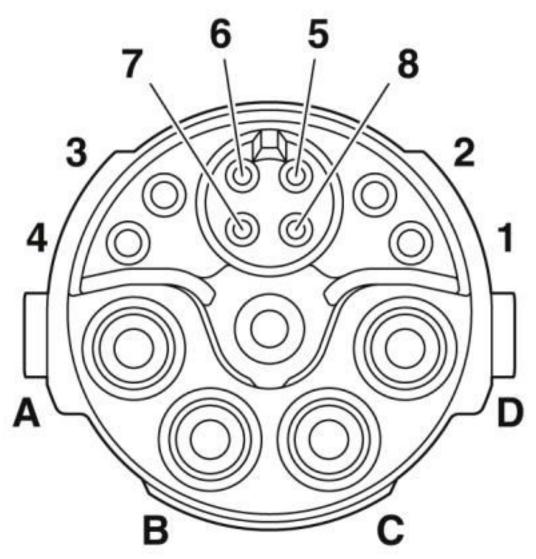
Environmental Product Compliance

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

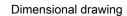


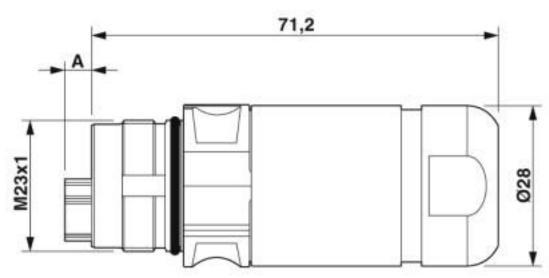
Schematic diagram



Socket pin assignment, signal







Pin version: dimension A = 4.7 mm, socket version: dimension A = 0 mm

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
eCI@ss 8.0	27440102
eCl@ss 9.0	27440102

ETIM

ETIM 4.0	EC002635
ETIM 5.0	EC002635
ETIM 6.0	EC002061

UNSPSC

UNSPSC 13.2	39121413
UNSPSC 18.0	39121413
UNSPSC 19.0	39121413
UNSPSC 20.0	39121413
UNSPSC 21.0	39121413



Approvals Approvals Approvals EAC / UL Recognized / cUL Recognized / cULus Recognized Ex Approvals Approval details EHE EAC B.01687 **UL** Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E153698-20181206 Nominal voltage UN 600 V Nominal current IN 24 A mm²/AWG/kcmil 12 cUL Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E153698-20181206

600 V

24 A

12

Accessories

cULus Recognized

Nominal voltage UN

Nominal current IN

mm²/AWG/kcmil

Accessories

Crimp contact



Accessories

Crimp contact - ST-10KS010 - 1618239



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

Crimp contact - ST-10KS035 - 1618464



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

Crimp contact - SF-20KS021 - 1621576



Crimp contact, turned, contact diameter: 2 mm, crimp range: 0.25 mm² ... 1 mm²

Crimp contact - SF-20KS022 - 1621577



Crimp contact, turned, contact diameter: 2 mm, crimp range: 1.5 mm 2 ... 2.5 mm 2

Crimp contact - SF-20KS023 - 1621578



Crimp contact, turned, contact diameter: 2 mm, crimp range: 2.5 mm² ... 4 mm²

Mounting material



Accessories

Square mounting flange - SF-Z0068 - 1620927



Square mounting flange, 4xM3, flange dimensions: 38 mm x 38 mm

Color-coding - SF-Z0064 - 1620585



Color-coding, color: green

Color-coding - SF-Z0065 - 1620586



Color-coding, color: orange

Color-coding - SF-Z0066 - 1620587



Color-coding, color: black

Protective cover

Protective cap - SH-Z2304 - 1622137



Plastic protection cap for M23 hybrid connectors with external thread



Accessories

Metal protective cap - SH-Z2303 - 1622138



Metal protection cap for M23 hybrid connectors with external thread

Metal protective cap - SH-Z2302 - 1622139



Metal protection cap with steel wire, for M23 hybrid connectors with external thread

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