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Coupling connector, SH, straight long, shielded: yes, for standard and SPEEDCON interlock, M23, No. of pos.: 4+4+4+PE / 3+N+PE, type of contact: Socket, Crimp connection, cable diameter range: 15 mm ... 18 mm

Your advantages

- Transmission of signals, data, and power in just a single connector
- ☑ CAT5 data interface for up to 100 Mbps
- 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 936910
GTIN	4046356936910
Custom tariff number	85366990
Country of origin	Germany

Technical data

Temperature range

Ambient temperature (ope	ration)	-40 °C 130 °C
Standards and Regula	ations	

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.



Technical data

Standards and Regulations

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
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, $4x \varnothing 0.8$ mm, $4x \varnothing 1$ mm, $5x \varnothing 2$ mm, order separately
Protection against electric shock	IEC 61984 and VDE 0623
Data rate	100 Mbps
Coding	N
Insulator material	PA 6.6
Insertion/withdrawal cycles mechanical	100
Contact connection method	Crimp connection
Type of contacts	Socket

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Technical data

Data of the insulating body

Number of positions 13 Direction of rotation Standard Contact diameter of power contacts 2 mm Litz wire cross section of power contacts min. 0.25 mm² Rated current for power contacts max. 4 mm² Rated current for power contacts max. 4 mm² Rated surge voltage 6 kV Rated voltage (III/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 mm² Nominal current per signal contact 8 A Note for max. connection cross section Rated voltage (III/3) signal contacts min. 0.06 mm² Litz wire cross section of signal contacts max. 1 mm² Nominal current per signal contact 5 A Note for max. connection cross section Rated surge voltage 1.5 kV 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	Application	Hybrid
Contact diameter of power contacts Litz wire cross section of power contacts min. Litz wire cross section of power contacts max. A mm² Rated current for power contacts Note for max. connection cross section Rated surge voltage Rated voltage (II/3) power contact Rated voltage (III/3) power contact Rated voltage contacts I mm Litz wire cross section of signal contacts min. O.06 mm² Litz wire cross section of signal contacts max. I mm² Nominal current per signal contact Rated surge voltage for max. connection cross section 1.5 kV Rated voltage (III/3) signal contact O.8 mm Litz wire cross section, data contacts, min. O.98 mm² Litz wire cross section, data contacts, min. O.98 mm² Rated current of each data contacts, max. O.5 mm² Rated current of each data contacts, max. Rated voltage of data contact For max. connection cross section Rated voltage of data contact So V Rated voltage of data contact at 25°C A.6 A Note For max. connection cross section Rated voltage of data contact So V Rated voltage of data contact Rated voltage of data contact So V	Number of positions	13
Litz wire cross section of power contacts max. 4 mm² Rated current for power contacts 30 A Note for max. connection cross section Rated surge voltage 6 kV 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 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 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, max. 0.5 mm² Rated voltage of data contact 50 V Rated voltage of data contact 50 V Rated voltage of data contact 50 V	Direction of rotation	Standard
Litz wire cross section of power contacts max. Rated current for power contacts Rated surge voltage Rated voltage (II/3) power contact Rated voltage (III/3) power contacts I mm 0.06 mm² Litz wire cross section of signal contacts min. I mm² Nominal current per signal contacts max. I mm² Nominal current per signal contact Rated surge voltage I.5 kV Rated voltage (III/3) signal contact O.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 contacts, max. 0.5 mm² Rated current of each data contact at 25°C 3.6 A Note For max. connection cross section Rated voltage of data contact 50 V Rated surge voltage 1.5 kV	Contact diameter of power contacts	2 mm
Rated current for power contacts 30 A Note for max. connection cross section Rated surge voltage 6 kV Rated voltage (III/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 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 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 voltage of data contact 50 V Rated voltage of data contact 50 V	Litz wire cross section of power contacts min.	0.25 mm ²
Note for max. connection cross section Rated surge voltage 6 kV 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 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 Contact diameter, data contacts, min. 0.08 mm² 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 voltage of data contact For wax. connection cross section Rated voltage of data contact at 25°C 3.6 V Rated voltage of data contact at 25°C 3.6 V Rated voltage voltage 1.5 kV	Litz wire cross section of power contacts max.	4 mm²
Rated surge voltage Rated voltage (II/3) power contact Rated voltage (III/3) power contact Rated voltage (III/3) power contact Contact diameter of signal contacts 1 mm 1.itz 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 contacts 0.8 mm Litz wire cross section, 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 8. V 8.	Rated current for power contacts	30 A
Rated voltage (II/3) power contact 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 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 3.6 V Rated voltage of data contact 50 V Rated surge voltage 1.5 kV	Note	for max. connection cross section
Rated voltage (III/3) power contact Contact diameter of signal contacts 1 mm Litz wire cross section of signal contacts min. 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 Contact diameter, data contacts 0.8 mm Litz wire cross section, data contacts, min. 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 50 V Contact diameter, data contacts 1.5 kV Rated current of each data contacts, min. 1.5 kV Rated current of each data contact at 25°C 3.6 A Note for max. connection cross section Rated voltage of data contact 50 V Rated surge voltage	Rated surge voltage	6 kV
Contact diameter of signal contacts Litz wire cross section of signal contacts min. Litz wire cross section of signal contacts max. 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 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 for max. connection cross section 1.5 kV	Rated voltage (II/3) power contact	850 V DC
Litz wire cross section of signal contacts min. 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 Contact diameter, data contacts Litz wire cross section, data contacts, min. Litz wire cross section, data contacts, max. Rated current of each data contact at 25°C Note for max. connection cross section 3.6 A Note for max. connection cross section 50 V Rated voltage of data contact 50 V Rated surge voltage 1.5 kV	Rated voltage (III/3) power contact	630 V AC
Litz wire cross section of signal contacts max. 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 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 voltage of data contact 50 V Rated surge voltage 1.5 kV	Contact diameter of signal contacts	1 mm
Nominal current per signal contact Note for max. connection cross section Rated surge voltage 1.5 kV Rated voltage (III/3) signal contact 50 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 voltage of data contact 50 V Rated surge voltage 1.5 kV	Litz wire cross section of signal contacts min.	0.06 mm²
Note for max. connection cross section Rated surge voltage 1.5 kV Rated voltage (III/3) signal contact 50 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 voltage of data contact 50 V Rated surge voltage 1.5 kV	Litz wire cross section of signal contacts max.	1 mm²
Rated surge voltage Rated voltage (III/3) signal contact 50 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 voltage of data contact 50 V Rated surge voltage 1.5 kV	Nominal current per signal contact	8 A
Rated voltage (III/3) signal contact Contact diameter, data contacts 0.8 mm Litz wire cross section, data contacts, min. 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 voltage of data contact 50 V Rated surge voltage 1.5 kV	Note	for max. connection cross section
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 voltage of data contact 50 V Rated surge voltage 1.5 kV	Rated surge voltage	1.5 kV
Litz wire cross section, data contacts, min. 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 voltage of data contact 50 V Rated surge voltage 1.5 kV	Rated voltage (III/3) signal contact	50 V
Litz wire cross section, data contacts, max. O.5 mm² Rated current of each data contact at 25°C 3.6 A Note for max. connection cross section Rated voltage of data contact 50 V Rated surge voltage 1.5 kV	Contact diameter, data contacts	0.8 mm
Rated current of each data contact at 25°C 3.6 A Note for max. connection cross section Rated voltage of data contact 50 V Rated surge voltage 1.5 kV	Litz wire cross section, data contacts, min.	0.08 mm²
Note for max. connection cross section Rated voltage of data contact 50 V Rated surge voltage 1.5 kV	Litz wire cross section, data contacts, max.	0.5 mm ²
Rated voltage of data contact 50 V Rated surge voltage 1.5 kV	Rated current of each data contact at 25°C	3.6 A
Rated surge voltage 1.5 kV	Note	for max. connection cross section
	Rated voltage of data contact	50 V
Installation height 2000 m	Rated surge voltage	1.5 kV
Thotal action holgh.	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



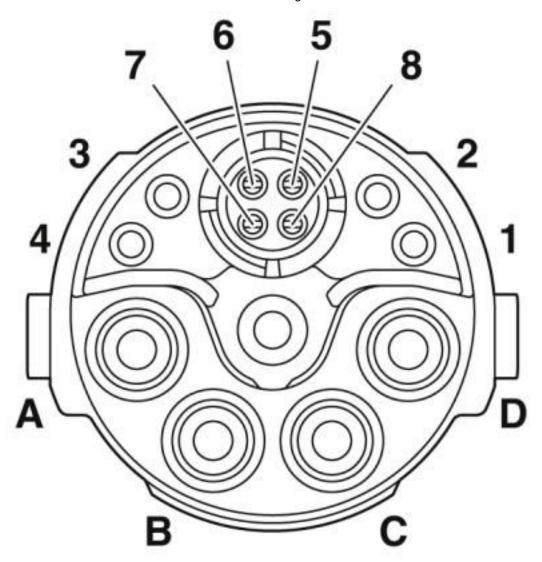
Technical data

Environmental Product Compliance

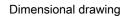
REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

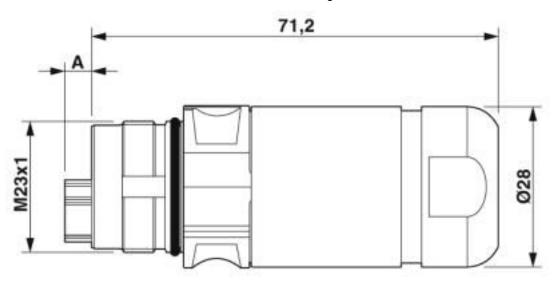
Drawings

Schematic diagram









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
eCl@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



Classifications

UNSPSC

ONOI OO		
UNSPSC 21.0	39121413	
Approvals		
Approvals		
Approvals		
EAC / UL Recognized / cUL Recognized / cULus Recognized	t	
Ex Approvals		
Approval details		
EAC EAC		B.01687

UL Recognized	http://database.ul.com	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	
Nominal voltage UN		600 V	
Nominal current IN		24 A	
mm²/AWG/kcmil		12	

cUL Recognized	.71	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		E153698-20181206
Nominal voltage UN			600 V	
Nominal current IN			21.4 A	
mm²/AWG/kcmil			12	

cULus Recognized



Accessories

Accessories

Cable by the meter

Hybrid cable - KC-88014311/1,00 - 1623127



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

Hybrid cable - KC-88014311/100,00 - 1623039



Hybrid cable, length: 100 m, color of outer sheath: orange RAL 2003

Hybrid cable - KC-88014311/20,00 - 1622080



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

Crimp contact

Crimp contact - SF-08KS010 - 1621571



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



Accessories

Crimp contact - SF-08KS020 - 1621573



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

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 mm² ... 2.5 mm²



Accessories

Crimp contact - SF-20KS023 - 1621578



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

Mounting material

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



Accessories

Protective cover

Protective cap - SH-Z2304 - 1622137



Plastic protection cap for M23 hybrid connectors with external thread

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

Sample set - M23 HYBRID_CONTACT-SAMPLE-SET - 1623252



Sample set consisting of $4x \varnothing 1.0$ mm, $4x \varnothing 0.8$ mm, $5x \varnothing 2.0$ mm socket and pin contacts for M23 hybrid connectors. Contacts included: 1621573, 1618464, 1621577, 1621575, 1618458, 1621580

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