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Coupler 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: Pin, Crimp connection, cable diameter range: 12 mm ... 15 mm, coding:N

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 937009
GTIN	4046356937009

Technical data

Temperature range

Temperature range	-40 °C 115 °C (see derating curve)	

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.

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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, 4x Ø 0.8 mm, 4x Ø 1 mm, 5x Ø 2 mm, order separately	
Protection against electric shock	IEC 61984 and VDE 0623	
Data rate	100 Mbps	
Coding	Ν	
Insulator material	PA 6.6	
Insertion/withdrawal cycles mechanical	100	
Contact connection method	Crimp connection	
Type of contacts	Pin	
Application	Hybrid	
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 mm ²	
Litz wire cross section of power contacts max.	4 mm ²	
Rated current for power contacts	30 A	



Technical data

Data of the insulating body

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 mm ²	
Litz wire cross section of signal contacts max.	1 mm ²	
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 mm ²	
Litz wire cross section, data contacts, max.	0.5 mm ²	
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	
Material	1.5 kV	
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	12 mm 15 mm
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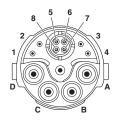
Environmental Product Compliance

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

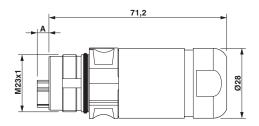


Schematic diagram



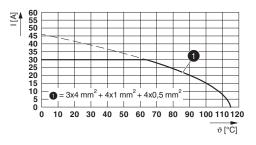
Pin assignment of pin, CAT5

Dimensional drawing



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

Diagram



I = current strength, ϑ = ambient temperature, power contacts A-C: 3 x up to 30 A, signal contacts: 4 x 2 A constant, data contacts: 4 x 1 A constant

Classifications

eCl@ss

eCl@ss 10.0.1	27440102
eCl@ss 11.0	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 9.0	27440102

ETIM

ETIM 4.0	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

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EAC / cULus Recognized / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approval details

EAC	EAC	B.01687

cULus Recognized	c RL us	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E468743-20150928	
Nominal voltage UN			600 V
Nominal current IN			16 A

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



 $http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm \ E153698-20181206$

Nominal voltage UN	600 V
Nominal current IN	21.4 A
mm²/AWG/kcmil	12







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 - ST-10KP010 - 1618255



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

Crimp contact - ST-10KP035 - 1618458



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

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Accessories

Crimp contact - SF-20KP021 - 1621579



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

Crimp contact - SF-20KP022 - 1621580



Crimp contact, turned, contact diameter: 2 mm, crimp range: 1.5 mm² ... 2.5 mm²

Crimp contact - SF-20KP023 - 1621581



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

Crimp contact - SF-08KP010 - 1621574



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

Crimp contact - SF-08KP020 - 1621575



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

Metal protective cap - SH-Z2302 - 1622139



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



Accessories

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

Sample set - M23 HYBRID_CONTACT-SAMPLE-SET - 1623252



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

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