1605507

https://www.phoenixcontact.com/us/products/1605507



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Coupler connector, straight long, for standard and SPEEDCON interlock, M23, number of positions: 5+PE, contact connection type: Pin, shielded: yes, degree of protection: IP67, cable diameter range: 12 mm ... 15 mm, Compatible with mating connectors with SPEEDCON or M23 standard knurled nuts, number of positions: 6, connection method: Crimp connection, series: SF, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241899

Your advantages

- · Consistent EMC protection for reliable connection solutions in the industrial environment
- Crimping connection: vibration- and temperature-resistant assembly
- · Flexible use: reliably connect various cable diameters

Commercial data

Item number	1605507
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB32
Product key	ABRBFG
Catalog page	Page 155 (C-2-2019)
GTIN	4046356253215
Weight per piece (including packing)	110.6 g
Weight per piece (excluding packing)	100.7 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Order information:	Order crimp contacts 6 x Ø 2 mm separately
afety note	
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 ar operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicate 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. are applicable when combining several circuits in a cable and/c 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 t ambient conditions, the surface of the connector can continue t warm up. In this case, the user is responsible for posting



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warnings (e.g. DIN EN ISO 13732-1:2008-12).

Product properties

Product type	Circular connector (cable-side)
Series	SF
Application	Power
Number of positions	6
Connection profile	5+PE
Shielded	yes
Coding	Ν
Thread type	M23

Data management status

Material specifications

Seal material	FPM
Housing material	Metal
Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)
Insulator material	PA 6.6
Gasket and O-ring material	FPM

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Connection data

Conductor connection	
Connection method	Crimp connection

Electrical properties

Overvoltage category

Degree of pollution

Rated surge voltage

Connector

Contact			
Contact diameter	2 mm		
Max. current	30 A		
Nominal voltage U _N	630 V		
Overvoltage category	111		
Degree of pollution	3		
Rated surge voltage	6 kV		
Contact			
Contact diameter	2 mm		
Max. current	30 A		
Nominal voltage U _N	630 V		

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6 kV

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Туре	straight long			
Cable/line				
External cable diameter	12 mm 15 mm			
Environmental and real-life conditions Ambient conditions				
Degree of protection	IP67			
Ambient temperature (operation)	-40 °C 125 °C			
Ambient temperature (storage/transport)	15 °C 25 °C			
Ambient temperature (storage/transport) Altitude	15 °C 25 °C 3000 m			

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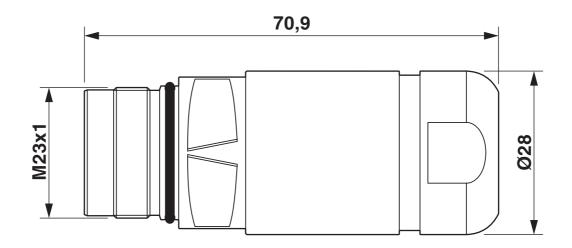
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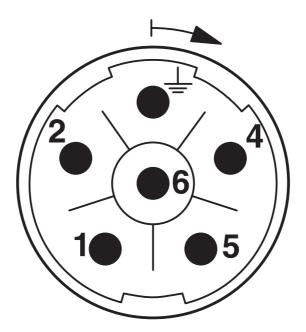
Drawings

Dimensional drawing

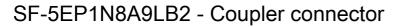


Dimensional drawing

Schematic diagram



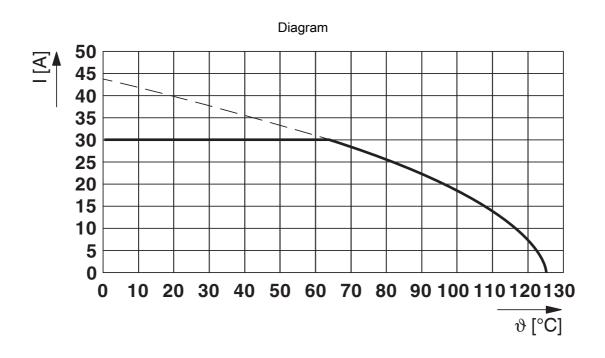
Connector pin assignment





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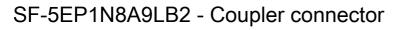
Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1605507

Appro	Recognized ral ID: E153698-20041116			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	600 V	18 A	12 - 12	-

W UL Recognized Approval ID: E153698-20041116					
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		600 V	27 A	12 - 12	-

cULus Recognized



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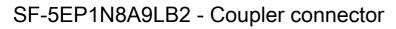
Classifications

ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

ETIM

	ETIM 9.0	EC002635
UN	NSPSC	
	UNSPSC 21.0	39121400



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
U REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	e673fbce-0f52-4a29-a904-183c5bcb8ee7

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Accessories

SF-7RP2000 - Crimp contact

1605646 https://www.phoenixcontact.com/us/products/1605646



Crimp contact, Pin, turned, Single contact, contact diameter: 2 mm, crimp range: 0.14 mm² ... 0.25 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241951

SF-7PP2000 - Crimp contact

1605634 https://www.phoenixcontact.com/us/products/1605634



Crimp contact, Pin, turned, Single contact, contact diameter: 2 mm, crimp range: $0.25 \text{ mm}^2 \dots 1 \text{ mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241951

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SF-20KP004 - Crimp contact

1607376

https://www.phoenixcontact.com/us/products/1607376



Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: $0.75 \text{ mm}^2 \dots 1$. 5 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241953

SF-7QP2000 - Crimp contact

1605639 https://www.phoenixcontact.com/us/products/1605639



Crimp contact, Pin, turned, Single contact, contact diameter: 2 mm, crimp range: $1 \text{ mm}^2 \dots 2.5 \text{ mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241953

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SF-7MP2000 - Crimp contact

1605626

https://www.phoenixcontact.com/us/products/1605626



Crimp contact, Pin, turned, Single contact, contact diameter: 2 mm, crimp range: $4 \text{ mm}^2 \dots 4 \text{ mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241948

SF-Z0019 - Protective cap

1607449 https://www.phoenixcontact.com/us/products/1607449



Plastic protection cap, with eye, IP40 for connectors with M23 external thread, RF, SF series

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RC-Z2469 - Protective cap

1611797

https://www.phoenixcontact.com/us/products/1611797



Plastic protection cap, antistatic, for RF, SF, CA, RC series connectors, with M23 external thread

SC-Z2319 - Metal protective cap

1605456 https://www.phoenixcontact.com/us/products/1605456



Metal protection cap for power connectors with M23 external thread

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SC-Z2320 - Metal protective cap

1605457

https://www.phoenixcontact.com/us/products/1605457

Metal protection cap with steel wire for power connectors with M23 external thread



SF-Z0064 - Color coding

1620585 https://www.phoenixcontact.com/us/products/1620585

Color coding, color: green



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SF-Z0065 - Color coding

1620586 https://www.phoenixcontact.com/us/products/1620586

Color coding, color: orange



SF-Z0066 - Color coding

1620587 https://www.phoenixcontact.com/us/products/1620587

Color coding, color: black



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SF-Z0068 - Square mounting flange

1620927

https://www.phoenixcontact.com/us/products/1620927



Square mounting flange, 4xM3, flange dimensions: 38 mm x 38 mm, series: SF, SH, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244326

PROT-M23PRO-OT-IP20 - Plastic protective cap

1055753 https://www.phoenixcontact.com/us/products/1055753



Plastic protective cap, M23, degree of protection: IP20, series: M23 PRO

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