

1605494

https://www.phoenixcontact.com/in/products/1605494

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Coupler connector, straight short, for standard and SPEEDCON interlock, M23, number of positions: 5+PE, type of contact: Pin, shielded: yes, degree of protection: IP67, cable diameter range: 7.5 mm ... 9 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.: 1241894

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	1605494
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	ABR
Product Key	ABRCBC
Catalog Page	Page 155 (C-2-2019)
GTIN	4046356253130
Weight per Piece (including packing)	107.6 g
Weight per Piece (excluding packing)	107.6 g
Customs tariff number	85366990
Country of origin	DE



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Technical Data

Notes

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 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



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	warnings (e.g. DIN EN ISO 13732-1:2008-12).
Product properties	
Product type	Circular connector (cable-side)
Number of positions	6
Connection profile	5+PE
Application	Power
Locking type	for standard and SPEEDCON interlock
Series	SF
Shielded	yes
Coding	N
Thread type	M23
Material specifications	
Seal material	FPM
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
Housing material	Metal
Conductor connection	
Connection method	Crimp connection
Electrical properties Contact	
Contact diameter	2 mm
Max. current	30 A
Nominal voltage U _N	630 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	6 kV
Contact	
Contact diameter	2 mm
Max. current	30 A
Nominal voltage U _N	630 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	6 kV
Connector	
Туре	straight short



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Cable/line

External cable diameter	7.5 mm 9 mm
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-40 °C 125 °C
Altitude	3000 m



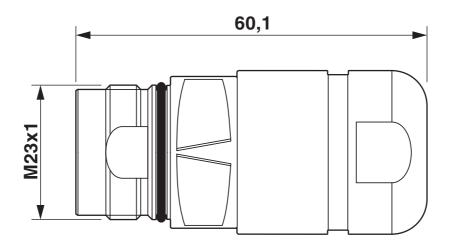
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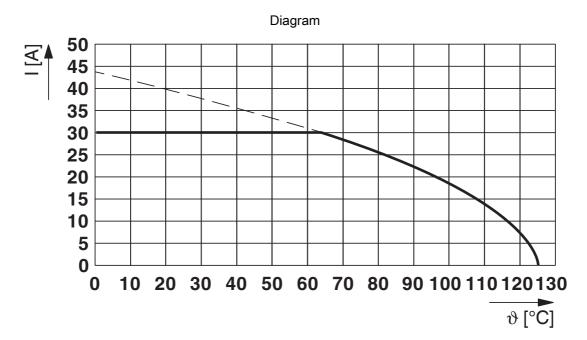


Drawings

Dimensional drawing



Dimensional drawing

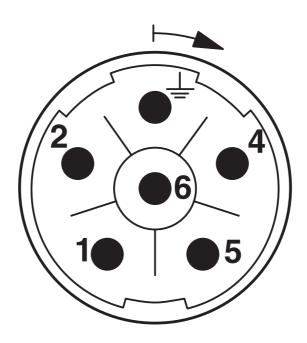




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Schematic diagram



Connector pin assignment



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Approvals

. 7\	cUL Recognized Approval ID: E153698-20	0041116			
		Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		600 V	18 A	- 12	-

71	UL Recognized Approval ID: E153698-20	0041116			
		Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		600 V	27 A	- 12	-

EHC	EAC
LIIL	Approval ID: B.01687



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116
ETIM	
ETIM 8.0	EC002635
UNSPSC	

39121400



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Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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Accessories

SF-7RP2000 - Crimp contact

1605646

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Crimp contact, Pin, turned, Single contact, contact diameter: 2 mm, crimp range: $0.14~\text{mm}^2~\dots~0.25~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1241951

SF-7PP2000 - Crimp contact

1605634

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Crimp contact, Pin, turned, Single contact, contact diameter: 2 mm, crimp range: $0.25~\text{mm}^2$... 1 mm², 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

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Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: $0.75 \text{ mm}^2 \dots 1$. 5 mm^2 , 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/in/products/1605639



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



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SF-Z0019 - Protective cap

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

RC-Z2059 - Protective cap

1604225

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Plastic protection cap for connectors with M23 external thread



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RC-Z2469 - Protective cap

1611797

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

SC-Z2319 - Metal protective cap

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Metal protection cap for power connectors with M23 external thread



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SC-Z2320 - Metal protective cap

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



SF-Z0064 - Color-coding

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Color-coding, color: green





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SF-Z0065 - Color-coding

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Color-coding, color: orange



SF-Z0066 - Color-coding

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Color-coding, color: black





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SF-Z0068 - Square mounting flange

1620927

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

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