

1620660

https://www.phoenixcontact.com/us/products/1620660

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Device connector, front mounting, angled rotatable, for standard and SPEEDCON interlock, M23, number of positions: 4+3+PE, type of contact: Pin, Axial O-ring,  $4x \not 0$  3.2, shielded: yes, flange dimensions: 26 mm x 26 mm, degree of protection: IP67, Compatible with mating connectors with SPEEDCON or M23 standard knurled nuts, number of positions: 8, connection method: Crimp connection, series: SF

## Your advantages

- Easy connection, thanks to infinitely adjustable cable outlet direction up to 310°
- · Consistent EMC protection for reliable connection solutions in the industrial environment
- · Crimping connection: vibration- and temperature-resistant assembly

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## **Commercial Data**

Item number	1620660
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	A12
Product Key	ABRCBL
Catalog Page	Page 156 (C-2-2019)
GTIN	4046356840989
Weight per Piece (including packing)	133.7 g
Weight per Piece (excluding packing)	123.6 g
Customs tariff number	85366990
Country of origin	DE



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## **Technical Data**

Order information:	Order crimp contacts 4 x Ø 1 mm, 4 x Ø 2 mm separately
ifety note	
Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper u 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 operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basi electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indica that only personnel familiar with electrical engineering are allowed to install and operate the product.
	The products are suitable for applications in plant, controlle and electrical device engineering.
	<ul> <li>When operating the connectors in outdoor applications, the must be separately protected against environmental influence</li> </ul>
	Assembled products may not be manipulated or improperly opened.
	<ul> <li>Only use mating connectors that are specified in the technidata of the standards listed (e.g. the ones listed in the producaccessories online at phoenixcontact.com/products).</li> </ul>
	<ul> <li>When using the product in direct connection with third-party manufacturers, the user is responsible.</li> </ul>
	<ul> <li>For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li> </ul>
	<ul> <li>Ensure that the protective or functional ground has been properly connected.</li> </ul>
	VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14 are applicable when combining several circuits in a cable and 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.
	<ul> <li>The connector warms up in normal operation. Depending o ambient conditions, the surface of the connector can continu warm up. In this case, the user is responsible for posting</li> </ul>



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

### **Product properties**

Product type	Circular connectors (device side)
Number of positions	8
Connection profile	4+3+PE
Application	Power
Locking type	for standard and SPEEDCON interlock
Series	SF
Shielded	yes
Coding	Ν
Thread type	M23

### Ambient conditions

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

### Dimensions

Housing	
Flange dimensions	26 mm x 26 mm

### Connector

## Electrical properties

Contact diameter	2 mm	
Max. current	30 A	
Nominal voltage U <sub>N</sub>	630 V	
Overvoltage category	III	
Rated surge voltage	6 kV	

Contact diameter	1 mm
Max. current	9 A
Nominal voltage U <sub>N</sub>	250 V
Overvoltage category	III
Rated surge voltage	4 kV

### Material specifications

Flammability rating according to UL 94	V0
Seal material	FPM
Housing material	Metal

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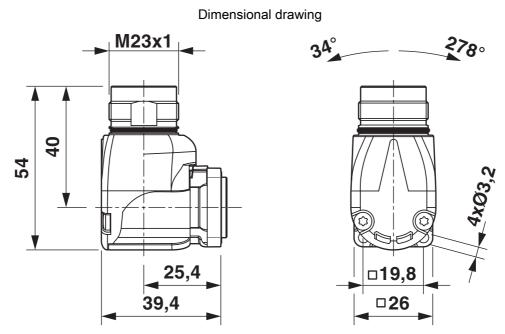
### Connection data

(	Conductor connection	
	Connection method	Crimp connection
Mounting		
	Mounting	4x Ø 3.2



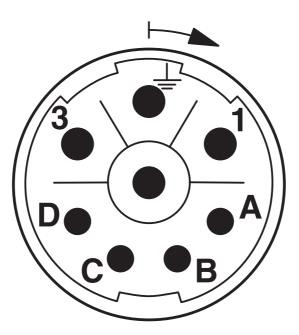
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## Drawings



Dimensional drawing

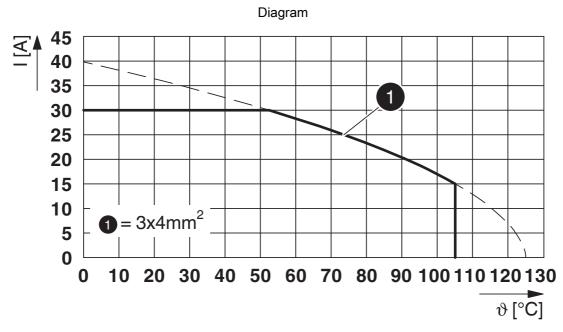
Schematic diagram



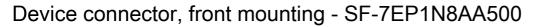
Connector pin assignment



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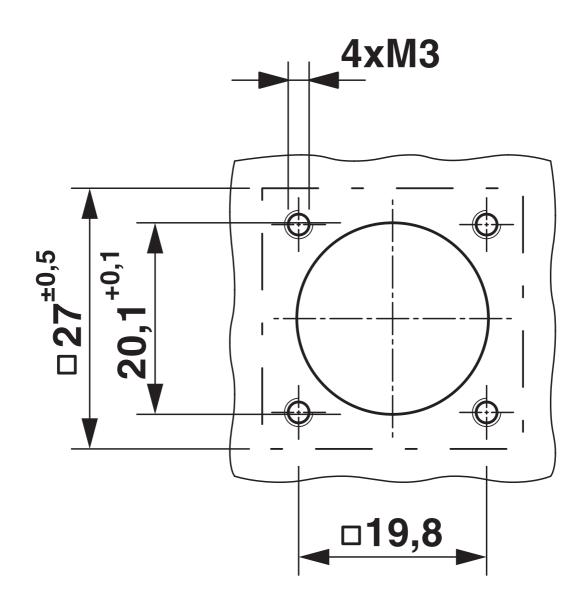
I = current strength, T = ambient temperature





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Dimensional drawing



Installation dimensions



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## Approvals





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## Classifications

### ECLASS

ECLASS-10.0.1         27440109           ECLASS-11.0         27440109	ECLASS-9.0	27440103
ECLASS-11.0 27440109	ECLASS-10.0.1	27440109
	ECLASS-11.0	27440109

## ETIM

	ETIM 8.0	EC003569
U	NSPSC	
	UNSPSC 21.0	39121400

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## **Environmental Product Compliance**

Environmentally friendly use period: unlimited = EFUP-e No hazardous substances above threshold values





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## Accessories

Crimp contact

Crimp contact - SF-7RP2000 - 1605646 https://www.phoenixcontact.com/us/products/1605646



Crimp contact, turned, Single contact, contact diameter: 2 mm, crimp range: 0.14  $\rm mm^2 \dots 0.25 \ \rm mm^2$ 

#### Crimp contact

Crimp contact - SF-7PP2000 - 1605634 https://www.phoenixcontact.com/us/products/1605634



Crimp contact, turned, Single contact, contact diameter: 2 mm, crimp range: 0.25  $\rm mm^2 \dots 1 \ \rm mm^2$ 

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Crimp contact

Crimp contact - SF-20KP004 - 1607376 https://www.phoenixcontact.com/us/products/1607376



Crimp contact, turned, contact diameter: 2 mm, crimp range: 0.75  $\rm mm^2$  ... 1.5  $\rm mm^2$ 

## Crimp contact

Crimp contact - SF-7QP2000 - 1605639 https://www.phoenixcontact.com/us/products/1605639



Crimp contact, turned, Single contact, contact diameter: 2 mm, crimp range: 1  $\rm mm^2 \dots 2.5 \; mm^2$ 

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Crimp contact

Crimp contact - SF-7MP2000 - 1605626 https://www.phoenixcontact.com/us/products/1605626



Crimp contact, turned, Single contact, contact diameter: 2 mm, crimp range: 4  $\mathrm{mm}^2 \ldots 4 \mathrm{\,mm}^2$ 

### Crimp contact

Crimp contact - SF-6CP2000 - 1605559 https://www.phoenixcontact.com/us/products/1605559



Crimp contact, turned, Single contact, contact diameter: 1 mm, crimp range: 0.06  $\rm mm^2 \dots 0.25 \ \rm mm^2$ 

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Crimp contact

Crimp contact - SF-10KP004 - 1607355 https://www.phoenixcontact.com/us/products/1607355



Crimp contact, turned, Single contact, contact diameter: 1 mm, crimp range: 0.14  $\rm mm^2 \dots 0.5 \ \rm mm^2$ 

### Crimp contact

Crimp contact - SF-6AP2000 - 1605554 https://www.phoenixcontact.com/us/products/1605554



Crimp contact, turned, Single contact, contact diameter: 1 mm, crimp range: 0.25  $\rm mm^2 \dots 1 \ \rm mm^2$ 

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#### Protective cap

Protective cap - SF-Z0019 - 1607449 https://www.phoenixcontact.com/us/products/1607449



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

### Protective cap

Protective cap - RC-Z2059 - 1604225 https://www.phoenixcontact.com/us/products/1604225



Plastic protection cap for connectors with M23 external thread



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#### Plastic anti-static dust protection cap

Plastic anti-static dust protection cap - RC-Z2469 - 1611797 https://www.phoenixcontact.com/us/products/1611797



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

### Metal protective cap

Metal protective cap - SC-Z2319 - 1605456 https://www.phoenixcontact.com/us/products/1605456



Metal protection cap for power connectors with M23 external thread



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Metal protective cap

Metal protective cap - SC-Z2320 - 1605457 https://www.phoenixcontact.com/us/products/1605457

Metal protection cap with steel wire for power connectors with M23 external thread  $% \left( {{{\rm{A}}_{\rm{B}}}} \right)$ 



#### Color-coding

Color-coding - RF-Z0017 - 1620624 https://www.phoenixcontact.com/us/products/1620624

Color-coding, color: green



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Color-coding

Color-coding - RF-Z0018 - 1620625 https://www.phoenixcontact.com/us/products/1620625

Color-coding, color: orange



Color-coding

Color-coding - RF-Z0019 - 1620626 https://www.phoenixcontact.com/us/products/1620626

Color-coding, color: anthracite



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