

1605532

https://www.phoenixcontact.com/pc/products/1605532

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Cable connector, straight short, Screw locking, M23, number of positions: 5+PE, type of contact: Socket, shielded: yes, degree of protection: IP67, cable diameter range: 7.5 mm ... 14 mm, number of positions: 6, connection method: Crimp connection, series: SF

### Your advantages

- Consistent EMC protection for reliable connection solutions in the industrial environment
- · Crimping connection: vibration- and temperature-resistant assembly
- Flexible use: reliably connect cable diameters of 7.5 mm ... 14 mm
- · Molded designs with pre-assembled cables on one or both sides



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### Commercial Data

Item number	1605532
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Product Key	ABRCBA
Catalog Page	Page 154 (C-2-2019)
GTIN	4046356182171
Weight per Piece (including packing)	134 g
Weight per Piece (excluding packing)	122.5 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.
	<ul> <li>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.     </li> </ul>
	<ul> <li>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.</li> </ul>
	<ul> <li>The products are suitable for applications in plant, controller, and electrical device engineering.</li> </ul>
	<ul> <li>When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li> </ul>
	<ul> <li>Assembled products may not be manipulated or improperly opened.</li> </ul>
	<ul> <li>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).</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 § 14.1.3 are applicable when combining several circuits in a cable and/or connector
	Only use tools recommended by Phoenix Contact
	<ul> <li>The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.</li> </ul>
	<ul> <li>Operate the connector only when it is fully plugged in and interlocked.</li> </ul>
	<ul> <li>Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li> </ul>
	<ul> <li>Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li> </ul>
	<ul> <li>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</li> </ul>



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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	Screw locking
Series	SF
Shielded	yes
Coding	N
Thread type	M23
mbient conditions	
Degree of protection	IP67
Ambient temperature (operation)	-40 °C 125 °C
Altitude	3000 m
Connector	
Туре	straight short
	straight short
Туре	straight short
Type lectrical properties	straight short  2 mm
Type  lectrical properties  Contact	
Type  lectrical properties  Contact  Contact diameter	2 mm
Type  lectrical properties  Contact  Contact diameter  Max. current	2 mm 30 A
Type Electrical properties  Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub>	2 mm 30 A 630 V
Type  lectrical properties  Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category	2 mm 30 A 630 V III
Type  lectrical properties  Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Rated surge voltage	2 mm 30 A 630 V III
Type  Contact  Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Rated surge voltage  Contact	2 mm 30 A 630 V III 6 kV
Type  Electrical properties  Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Rated surge voltage  Contact  Contact diameter	2 mm 30 A 630 V III 6 kV
Type  Contact  Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Rated surge voltage  Contact  Contact diameter  Overvoltage category  Rated surge voltage	2 mm 30 A 630 V III 6 kV
Type  Electrical properties  Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Rated surge voltage  Contact  Contact diameter  Overvoltage category  Rated surge voltage	2 mm 30 A 630 V III 6 kV
Type  Contact  Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Rated surge voltage  Contact  Contact diameter  Overvoltage category  Rated surge voltage	2 mm 30 A 630 V III 6 kV
Type  Electrical properties  Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Rated surge voltage  Contact  Contact diameter  Overvoltage category  Rated surge voltage  Material specifications  Flammability rating according to UL 94	2 mm 30 A 630 V III 6 kV  2 mm III 6 kV  V0 FPM Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-
Type  Electrical properties  Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Rated surge voltage  Contact  Contact diameter  Overvoltage category  Rated surge voltage  Material specifications  Flammability rating according to UL 94  Seal material	2 mm 30 A 630 V III 6 kV  2 mm III 6 kV
Contact Contact Contact diameter Max. current Nominal voltage U <sub>N</sub> Overvoltage category Rated surge voltage  Contact Contact diameter Overvoltage category Rated surge voltage  Material specifications Flammability rating according to UL 94 Seal material Housing material	2 mm 30 A 630 V III 6 kV  2 mm III 6 kV  V0 FPM Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)

### Connection data

### Conductor connection



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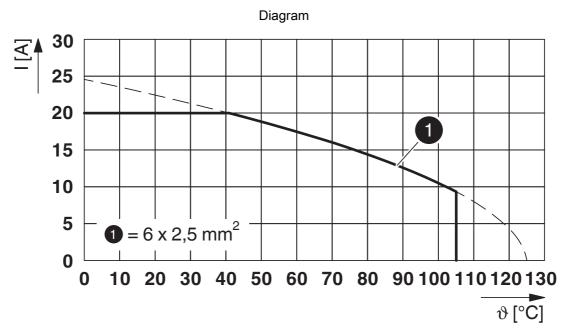
	Connection method	Crimp connection
Ca	able / line	
	Cable structure	
	External cable diameter	7.5 mm 14 mm



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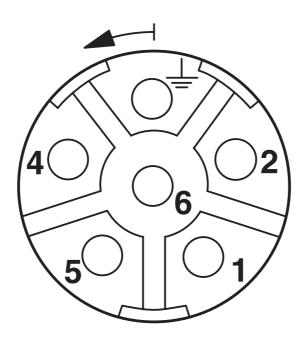


### Drawings



I = current strength, θ = ambient temperature, 6x 20 A

Schematic diagram



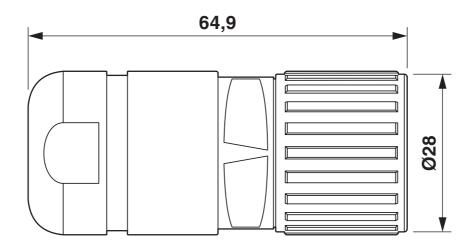
Connector pin assignment



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### Dimensional drawing



Dimensional drawing



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### Approvals

. <b>7\</b>	CUL Recognized Approval ID: E153698-20041116				
		Nominal Voltage U <sub>N</sub>	Nominal Current I <sub>N</sub>	Cross Section AWG	Cross Section mm <sup>2</sup>
		600 V	18 A	- 12	-

7/	UL Recognized Approval ID: E153698-20041116				
		Nominal Voltage U <sub>N</sub>	Nominal Current I <sub>N</sub>	Cross Section AWG	Cross Section mm <sup>2</sup>
		600 V	27 A	- 12	-

EAC	EAC
LIIL	Approval ID: B.01687

#### cULus Recognized



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### Classifications

UNSPSC 21.0

### **ECLASS**

ECLASS-9.0	27440102
ECLASS-10.0.1	27440102
ECLASS-11.0	27440102
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

### Square mounting flange

Square mounting flange - SF-Z0068 - 1620927 https://www.phoenixcontact.com/pc/products/1620927



Square mounting flange, 4xM3, flange dimensions: 38 mm x 38 mm, series: SF

#### Hook wrench

Hook wrench - SF-Z0027 - 1607455

https://www.phoenixcontact.com/pc/products/1607455



Hook wrench, series: RC



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### Plastic anti-static dust protection cap

Plastic anti-static dust protection cap - RC-Z2468 - 1611796 https://www.phoenixcontact.com/pc/products/1611796



Plastic protection cap, antistatic, for connectors with M23 knurled nut

### Torque screwdriver

Torque screwdriver - SF-Z0028 - 1607456 https://www.phoenixcontact.com/pc/products/1607456



Torque screwdriver, series: RC



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### Protective cap

Protective cap - RC-Z2058 - 1604223 https://www.phoenixcontact.com/pc/products/1604223



Plastic protection cap for connectors with M23 knurled nut

#### Metal protective cap

Metal protective cap - SC-Z2322 - 1605459 https://www.phoenixcontact.com/pc/products/1605459

Metal dust protection cap with steel wire for power plugs with M23 knurled nuts





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### Crimp contact

Crimp contact - SF-7PS2000 - 1605636

https://www.phoenixcontact.com/pc/products/1605636



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

### Crimp contact

Crimp contact - SF-7NS2000 - 1605631

https://www.phoenixcontact.com/pc/products/1605631



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



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### Crimp contact

Crimp contact - SF-7QS2000 - 1605643

https://www.phoenixcontact.com/pc/products/1605643



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

### Color-coding

Color-coding - SF-Z0064 - 1620585

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

Color-coding, color: green





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### Color-coding

Color-coding - SF-Z0065 - 1620586 https://www.phoenixcontact.com/pc/products/1620586

Color-coding, color: orange



#### Color-coding

Color-coding - SF-Z0066 - 1620587

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

Color-coding, color: black



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