

1605524

https://www.phoenixcontact.com/in/products/1605524

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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 ... 9 mm, 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.: 1241907

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
- · Molded designs with pre-assembled cables on one or both sides

Commercial Data

Item number	1605524
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	ABR
Product Key	ABRCBA
Catalog Page	Page 154 (C-2-2019)
GTIN	4046356253406
Weight per Piece (including packing)	135.1 g
Weight per Piece (excluding packing)	120.87 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
Safety 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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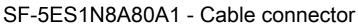
	warnings (e.g. DIN EN ISO 13732-1:2008-12).
roduct properties	
Product type	Circular connector (cable-side)
Number of positions	6
Connection profile	5+PE
Application	Power
Locking type	Screw locking
Series	SF
Shielded	yes
Coding	N
Thread type	M23
aterial specifications	
Seal material	FPM
Housing material	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
ectrical 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
onnector	
Туре	straight short



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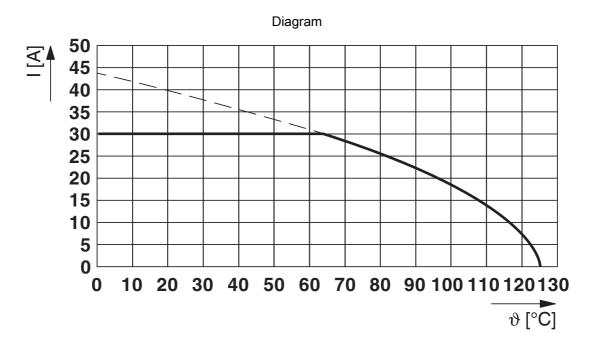
Connection 1			
Head design	Socket		
Cable/line			
External cable diameter	7.5 mm 9 mm		
Environmental and real-life conditions Ambient conditions			
Degree of protection	IP67		
Degree of protection Ambient temperature (operation)	IP67 -40 °C 125 °C		



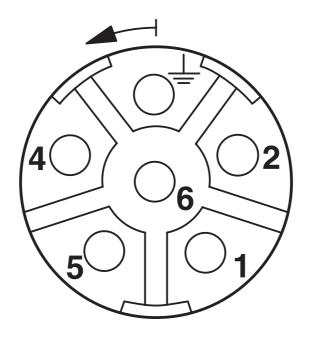


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Drawings



Schematic diagram



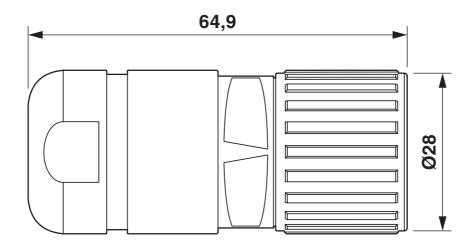
Connector pin assignment



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Dimensional drawing



Dimensional drawing



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Approvals

CUL Recognized Approval ID: E153698-20041116					
		Nominal Voltage U_N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		600 V	18 A	- 12	-

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	-

EAC	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
LIN	ISPSC	

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-7PS2000 - Crimp contact

1605636

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Crimp contact, Socket, 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.: 1241952

SF-7NS2000 - Crimp contact

1605631

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



Crimp contact, Socket, turned, Single contact, contact diameter: 2 mm, crimp range: $0.75~\text{mm}^2$... $1.5~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1237431



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SF-7QS2000 - Crimp contact

1605643

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



Crimp contact, Socket, turned, Single contact, contact diameter: 2 mm, crimp range: $1~\text{mm}^2$... $2.5~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1237431

RC-Z2058 - Protective cap

1604223

https://www.phoenixcontact.com/in/products/1604223



Plastic protection cap for connectors with M23 knurled nut



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RC-Z2468 - Protective cap

1611796

https://www.phoenixcontact.com/in/products/1611796



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

SC-Z2322 - Metal protective cap

1605459

https://www.phoenixcontact.com/in/products/1605459

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





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SF-Z0064 - Color-coding

1620585

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Color-coding, color: green



SF-Z0065 - Color-coding

1620586

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Color-coding, color: orange





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SF-Z0066 - Color-coding

1620587

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Color-coding, color: black



SF-Z0028 - Torque screwdriver

1607456

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Torque screwdriver, series: RC



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SF-Z0027 - Hook wrench

1607455

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Hook wrench, series: RC

SF-Z0068 - Square mounting flange

1620927

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



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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