

1605545

https://www.phoenixcontact.com/us/products/1605545

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Cable connector, straight long, Screw locking mechanism, M23, number of positions: 5+PE, contact connection type: Socket, shielded: yes, degree of protection: IP67, cable diameter range: 12 mm ... 15 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.: 1241912

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 preassembled cables on one or both sides

Commercial data

Item number	1605545
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB32
Product key	ABRBFA
Catalog page	Page 154 (C-2-2019)
GTIN	4046356253536
Weight per piece (including packing)	138.867 g
Weight per piece (excluding packing)	129.8 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).
oduct properties	
Product type	Circular connector (cable-side)
Series	SF
Application	Power
Number of positions	6
Connection profile	5+PE
Shielded	yes
Coding	N
Thread type	M23
Data management status	
Article revision	14
aterial 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
onnection data 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
	30 A
Max. current	30 A
	630 V
Max. current Nominal voltage U _N Overvoltage category	
Nominal voltage U _N	630 V

Connector



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	Туре	straight long	
	Connection 1		
	Head design	Socket	
Ca	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
Altitude	3000 m
Permissible humidity (storage/transport)	50 % 65 %

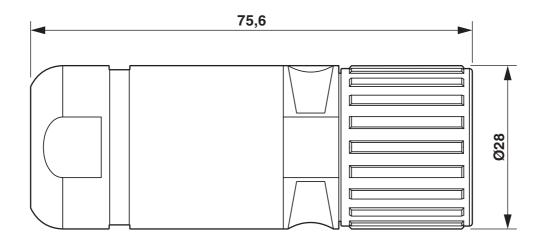


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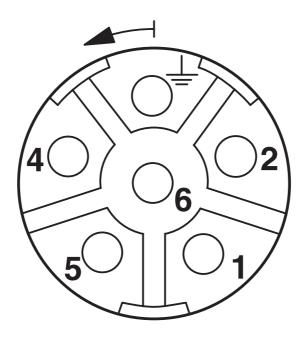
Drawings

Dimensional drawing



Dimensional drawing

Schematic diagram

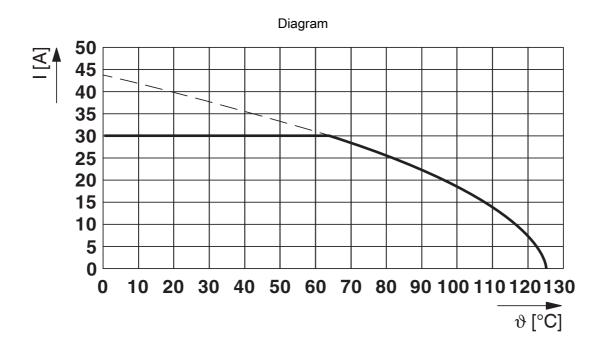


Connector pin assignment



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1605545

. 51 1	cUL Recognized Approval ID: E153698-2004111	16			
	No	ominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	600	0 V	18 A	12 - 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 - 12	-

cULus Recognized



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27440102	
ECLASS-12.0	27440116	
ECLASS-13.0	27440116	
ETIM		
ETIM 9.0	EC002635	
UNSPSC		

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.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	a9962038-bb42-482b-9196-9e86376077fe



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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/us/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/us/products/1605643



Crimp contact, Socket, 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.: 1237431

SF-7MS2000 - Crimp contact

1605628

https://www.phoenixcontact.com/us/products/1605628



Crimp contact, Socket, turned, Single contact, contact diameter: 2 mm, crimp range: 4 mm 2 ... 4 mm 2 , Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241949



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SC-Z2322 - Metal protective cap

1605459

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

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



SF-Z0064 - Color coding

1620585

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Color coding, color: green





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SF-Z0065 - Color coding

1620586

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Color coding, color: orange



SF-Z0066 - Color coding

1620587

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Color coding, color: black





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SF-Z0028 - Torque screwdriver

1607456

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Torque screwdriver, series: RC, UC, SH, SF

SF-Z0027 - Hook wrench

1607455

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Hook wrench, series: RC, UC, RF, SF



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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, SH, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244326

PROT-M23-PW-IT-IP20 - Plastic protective cap

1577207

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Plastic protective cap, M23, degree of protection: IP20, series: SH, SF

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