

1618204

https://www.phoenixcontact.com/us/products/1618204

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Cable connector, SPEEDCON, M23, number of positions: 4+3+PE, contact connection type: Socket, shielded: yes, degree of protection: IP67, cable diameter range: 7.5 mm ... 9 mm, number of positions: 8, connection method: Crimp connection, series: SF, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243170

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	1618204
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB32
Product key	ABRBFB
Catalog page	Page 154 (C-2-2019)
GTIN	4046356584524
Weight per piece (including packing)	130.6 g
Weight per piece (excluding packing)	120.1 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Notes

Order crimp contacts 4 x Ø 1 mm, 4 x Ø 2 mm separately
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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Circular connector (cable-side)
SF
Power
8
4+3+PE
yes
N
M23
11
FPM
Metal
2 mm
30 A
30 A 630 V
30 A 630 V III
30 A 630 V III 3
30 A 630 V III
30 A 630 V III 3
30 A 630 V III 3
30 A 630 V III 3 6 kV
30 A 630 V III 3 6 kV
30 A 630 V III 3 6 kV

Cable/line



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	External cable diameter	7.5 mm 9 mm	
En	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 %	



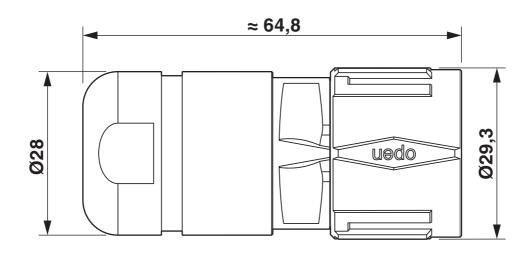


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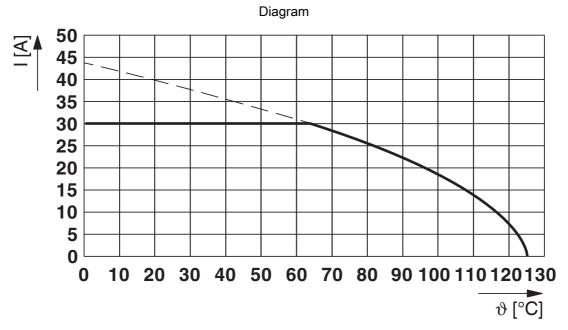
Drawings

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Dimensional drawing



Dimensional drawing



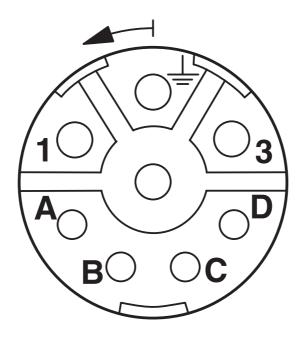
I = current strength, T = ambient temperature



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Schematic diagram



Connector pin assignment



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1618204

. 51 1	CUL Recognized Approval ID: E153698-20041116			
	Nominal volta	ge U _N Nominal current	I _N Cross section AWC	G Cross section mm ²
	600 V	18 A	12 - 12	-

71	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

E	ECLASS-11.0	27440102
Е	ECLASS-12.0	27440116
Е	ECLASS-13.0	27440116
ETIM		
Е	TIM 9.0	EC002635
UNSF	PSC	

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	75bc1536-61f0-4daf-a7b2-28a940bd0fff



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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

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

SF-6CS2000 - Crimp contact

1605562

https://www.phoenixcontact.com/us/products/1605562



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: $0.06~\text{mm}^2$... $0.25~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241922



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SF-10KS004 - Crimp contact

1607356

https://www.phoenixcontact.com/us/products/1607356



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: $0.14~\text{mm}^2$... $0.5~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1~%) item no.: 1241922

SF-6AS2000 - Crimp contact

1605557

https://www.phoenixcontact.com/us/products/1605557



Crimp contact, Socket, turned, Single contact, contact diameter: 1 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.: 1241922



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SF-6FS2000 - Crimp contact

1605566

https://www.phoenixcontact.com/us/products/1605566



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: $0.5~\text{mm}^2$... 1 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1~%) item no.: 1241923

SC-Z2322 - Metal protective cap

1605459

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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, UC, SH, SF



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SF-Z0027 - Hook wrench

1607455

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

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



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

1577207

https://www.phoenixcontact.com/us/products/1577207



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

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