

https://www.phoenixcontact.com/us/products/1627033



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Cable connector, straight short, Screw locking mechanism, M23, number of positions: 4+3+PE, contact connection type: Socket, shielded: yes, degree of protection: IP67, cable diameter range: 5.5 mm ... 8.5 mm, number of positions: 8, connection method: Crimp connection, series: SF, This product is in the process of being discontinued. This product must no longer be considered for new projects. Please contact your sales representative for alternatives.

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	1627033
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	ABRBFA
GTIN	4055626289731
Weight per piece (including packing)	123.2 g
Weight per piece (excluding packing)	118.786 g
Country of origin	DE



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Technical data

Notes

Order information:	Order crimp contacts 4 x Ø 1 mm, 4 x Ø 2 mm separately
Note on application	Series SF connectors are not compatible with series M23 PRO and must not be combined.
fety 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 an 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/oconnector
	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 connector warms up in normal operation.



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	ambient conditions, the surface of the connector can continue warm up. In this case, the user is responsible for posting 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	8
Connection profile	4+3+PE
Shielded	yes
Coding	N
Thread type	M23
aterial specifications	
Material Housing	Metal
Seal material	FPM
onnection data Conductor connection	
Connection method	Crimp connection
ectrical properties	
ectrical properties Contact: Contact group 1 Contact diameter	2 mm
ectrical properties Contact: Contact group 1	
ectrical properties Contact: Contact group 1 Contact diameter	2 mm
ectrical properties Contact: Contact group 1 Contact diameter Nominal current I _N	2 mm 30 A
ectrical properties Contact: Contact group 1 Contact diameter Nominal current I _N Nominal voltage U _N	2 mm 30 A 630 V
ectrical properties Contact: Contact group 1 Contact diameter Nominal current I _N Nominal voltage U _N Overvoltage category	2 mm 30 A 630 V
ectrical properties Contact: Contact group 1 Contact diameter Nominal current I _N Nominal voltage U _N Overvoltage category Degree of pollution	2 mm 30 A 630 V III 3
ectrical properties Contact: Contact group 1 Contact diameter Nominal current I _N Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage	2 mm 30 A 630 V III 3
ectrical properties Contact: Contact group 1 Contact diameter Nominal current I _N Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact: Contact group 2	2 mm 30 A 630 V III 3 6 kV
ectrical properties Contact: Contact group 1 Contact diameter Nominal current I _N Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact: Contact group 2 Contact diameter	2 mm 30 A 630 V III 3 6 kV
ectrical properties Contact: Contact group 1 Contact diameter Nominal current I _N Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact: Contact group 2 Contact diameter Nominal current I _N	2 mm 30 A 630 V III 3 6 kV
ectrical properties Contact: Contact group 1 Contact diameter Nominal current I _N Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact: Contact group 2 Contact diameter Nominal current I _N Nominal voltage U _N	2 mm 30 A 630 V III 3 6 kV
ectrical properties Contact: Contact group 1 Contact diameter Nominal current I _N Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact: Contact group 2 Contact diameter Nominal current I _N Nominal voltage U _N Overvoltage category	2 mm 30 A 630 V III 3 6 kV
ectrical properties Contact: Contact group 1 Contact diameter Nominal current I _N Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact: Contact group 2 Contact diameter Nominal current I _N Nominal voltage U _N Overvoltage category Degree of pollution	2 mm 30 A 630 V III 3 6 kV 1 mm 9 A 250 V III 3
ectrical properties Contact: Contact group 1 Contact diameter Nominal current I _N Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact: Contact group 2 Contact diameter Nominal current I _N Nominal voltage U _N Overvoltage category Degree of pollution	2 mm 30 A 630 V III 3 6 kV 1 mm 9 A 250 V III 3
ectrical properties Contact: Contact group 1 Contact diameter Nominal current I _N Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact: Contact group 2 Contact diameter Nominal current I _N Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage	2 mm 30 A 630 V III 3 6 kV 1 mm 9 A 250 V III 3 4 kV
ectrical properties Contact: Contact group 1 Contact diameter Nominal current I _N Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact: Contact group 2 Contact diameter Nominal current I _N Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage	2 mm 30 A 630 V III 3 6 kV 1 mm 9 A 250 V III 3 4 kV



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Head thread type	M23				
Cable/line					
External cable diameter	5.5 mm 8.5 mm				
Environmental and real-life conditions Ambient conditions					
Degree of protection	IP67				
Ambient temperature (operation)	-40 °C 125 °C				
Altitude	3000 m				
Permissible humidity (storage/transport)	50 % 65 %				

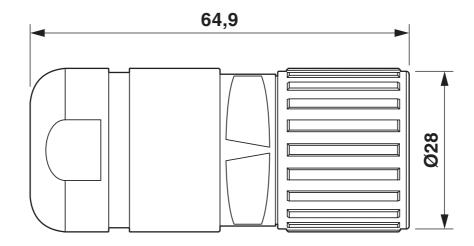


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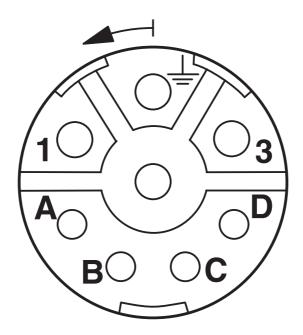
Drawings

Dimensional drawing



Dimensional drawing

Schematic diagram

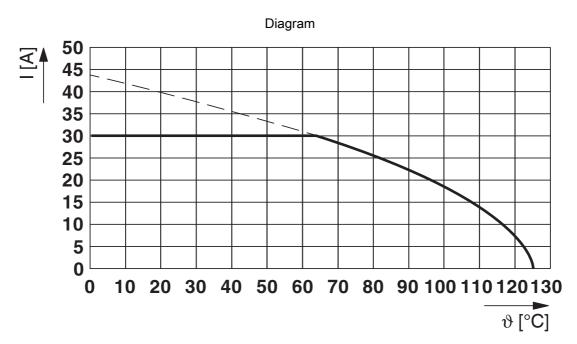


Connector pin assignment



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I = current strength, T = ambient temperature



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Classifications

ECLASS

	ECLASS-13.0	27440116		
	ECLASS-15.0	27440116		
ΕΊ	ETIM			
	ETIM 9.0	EC002635		
UNSPSC				
	UNSPSC 21.0	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	216143f6-59cc-4af2-a746-45038d2a488e

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com