

1627035

https://www.phoenixcontact.com/us/products/1627035

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Coupler connector, straight short, Screw locking mechanism, M23, number of positions: 4+3+PE, contact connection type: Pin, 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 item is expected to be lead-free from Q1 2027 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance, 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

#### Commercial data

Item number	1627035
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB32
Product key	ABRBFG
GTIN	4055626289755
Weight per piece (including packing)	108.9 g
Weight per piece (excluding packing)	93.549 g
Customs tariff number	85366990
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.
General	Compatible with mating connectors with SPEEDCON or M23 standard knurled nuts
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.
	<ul> <li>WARNING: Commission properly functioning products only.</li> <li>The products must be regularly inspected for damage.</li> <li>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>
	<ul> <li>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</li> </ul>
	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>
	Observe the minimum bending radius of the cable. Lay the



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	cable without twisting it.
	<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 warnings (e.g. DIN EN ISO 13732-1:2008-12).</li> </ul>
roduct 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
faterial specifications	
Material Housing	Metal
Seal material	FPM
Conductor connection	
Connection method	Crimp connection
Contact: Contact group 1	
Contact: Contact group 1  Contact diameter	2 mm
Contact: Contact group 1  Contact diameter  Nominal current I <sub>N</sub>	30 A
Contact: Contact group 1  Contact diameter  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub>	30 A 630 V
Contact: Contact group 1  Contact diameter  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Overvoltage category	30 A 630 V III
Contact: Contact group 1  Contact diameter  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution	30 A 630 V III 3
Contact: Contact group 1  Contact diameter  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Overvoltage category	30 A 630 V III
Contact: Contact group 1  Contact diameter  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution	30 A 630 V III 3
Contact: Contact group 1  Contact diameter  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage	30 A 630 V III 3
Contact: Contact group 1  Contact diameter  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact: Contact group 2	30 A 630 V III 3 6 kV
Contact: Contact group 1  Contact diameter  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact: Contact group 2  Contact diameter	30 A 630 V III 3 6 kV
Contact: Contact group 1  Contact diameter  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact: Contact group 2  Contact diameter  Nominal current I <sub>N</sub>	30 A 630 V III 3 6 kV
Contact: Contact group 1  Contact diameter  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact: Contact group 2  Contact diameter  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub>	30 A 630 V III 3 6 kV 1 mm 9 A 250 V
Contact: Contact group 1  Contact diameter  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact: Contact group 2  Contact diameter  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Overvoltage category	30 A 630 V III 3 6 kV 1 mm 9 A 250 V III
Contact: Contact group 1  Contact diameter  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact: Contact group 2  Contact diameter  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage	30 A 630 V III 3 6 kV 1 mm 9 A 250 V III 3
Contact diameter  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact: Contact group 2  Contact diameter  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution	30 A 630 V III 3 6 kV 1 mm 9 A 250 V III 3



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Head design	Pin			
Cable/line				
External cable diameter	5.5 mm 8.5 mm			
Environmental and real-life conditions  Ambient conditions				
	IP67			
Ambient conditions	IP67 -40 °C 125 °C			
Ambient conditions  Degree of protection				

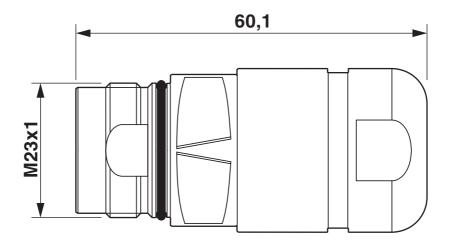
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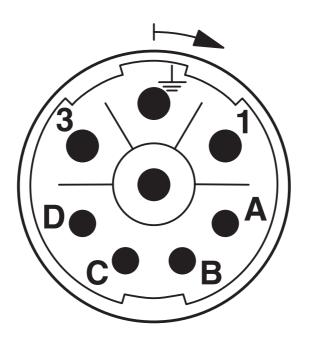
## Drawings

### Dimensional drawing



Dimensional drawing

Schematic diagram

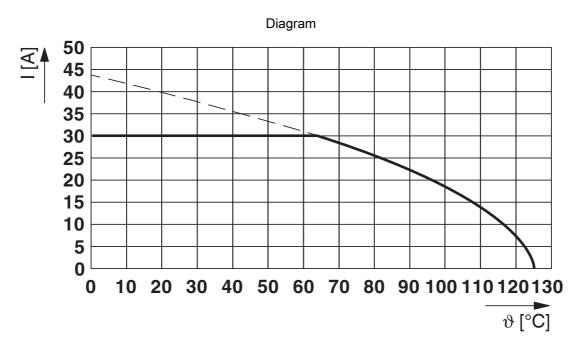


Connector pin assignment



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I = current strength, T = ambient temperature



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## Classifications

#### **ECLASS**

	ECLASS-13.0	27440116
	ECLASS-15.0	27440116
ET	IM	
	ETIM 9.0	EC002635
UN	ISPSC	

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	68fe1500-9e21-4286-b2a6-ba8386d767a8

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