

1605543

https://www.phoenixcontact.com/us/products/1605543

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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: 15 mm ... 18 mm, number of positions: 6, connection method: Crimp connection, series: SF, this item is undergoing a smooth changeover, lead-free alternative in accordance with RoHS II without exception 6c (Pb < 0.1%) possible on request in advance

### 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	1605543
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB32
Product key	ABRBFA
Catalog page	Page 154 (C-2-2019)
GTIN	4046356253529
Weight per piece (including packing)	134.125 g
Weight per piece (excluding packing)	121.122 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
Note on application	Series SF connectors are not compatible with series M23 PRO and must not be combined.
ety 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 an operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicate 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 § 14.1.3.2 are applicable when combining several circuits in a cable and/o connector</li> </ul>
	<ul> <li>Only use tools recommended by Phoenix Contact</li> </ul>
	<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>
	<ul> <li>Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li> </ul>
	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 to 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	6
Connection profile	5+PE
Shielded	yes
Coding	N
Thread type	M23
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
Conductor connection  Connection method	Crimp connection
Connection method	Chilip Connection
lectrical properties	
Contact	
Contact diameter	2 mm
Max. current	30 A
Nominal voltage U <sub>N</sub>	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 $\mathbf{U}_{\mathbf{N}}$	630 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	6 kV
onnector	
Туре	straight long



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#### Connection 1

Head design	Socket
Head cable outlet	straight, long
Head thread type	M23

#### Cable/line

External cable diameter	15 mm 18 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 %

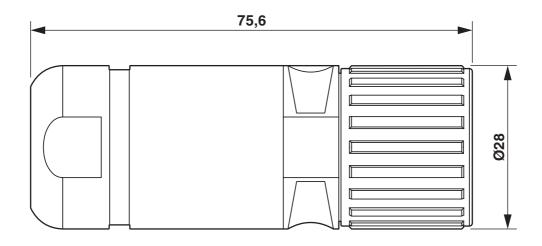


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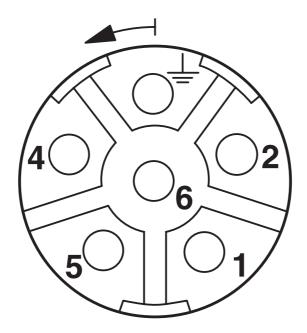
### Drawings

#### Dimensional drawing



Dimensional drawing

Schematic diagram

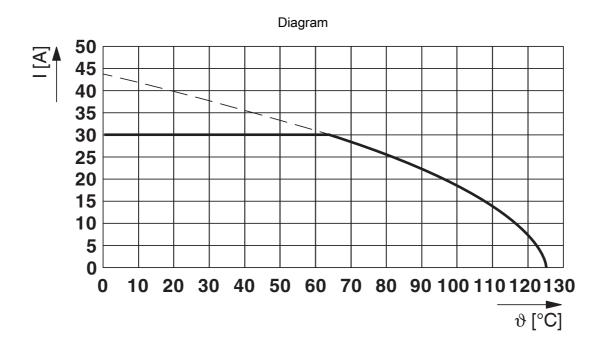


Connector pin assignment



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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1605543

cUL Recognized Approval ID: E153698-20041116					
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		600 V	18 A	12	-

<i>7</i> .	<b>UL Recognized</b> Approval ID: E153698-20	0041116			
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		600 V	27 A	12	-



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### Classifications

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	ECLASS-13.0	27440116
E <sup>-</sup>	ГІМ	
	ETIM 9.0	EC002635
UI	NSPSC	
	UNSPSC 21.0	39121400



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### Environmental product compliance

#### EU RoHS

Yes
6(c)
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.
Lead(CAS: 7439-92-1)
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