

1607654

https://www.phoenixcontact.com/gb/products/1607654

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Device connector front mounting, straight, for standard and SPEEDCON interlock, M17, number of positions: 17, contact connection type: Socket, Axial O-ring,  $4x \varnothing 2.7$  mm, shielded: yes, flange dimensions: 21.6 mm x 21.6 mm, number of positions: 17, connection method: Crimp connection, series: ST

### Your advantages

- Consistent EMC protection for reliable connection solutions in the industrial environment
- · Crimping connection: vibration- and temperature-resistant assembly
- · Flexible mounting, thanks to snap-in contact inserts

#### Commercial data

Item number	1607654
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	ABRACL
Product key	ABRACL
Catalog page	Page 65 (C-2-2019)
GTIN	4046356273626
Weight per piece (including packing)	27.2 g
Weight per piece (excluding packing)	27 g
Customs tariff number	85366990
Country of origin	DE



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### Technical data

#### Notes

Order information:	Order crimp contacts Ø 0.6 mm separately
Safety 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>
	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.
	<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>
	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
	<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 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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Contact connection type

	warnings (e.g. DIN EN ISO 13732-1:2008-12).
lounting	
Mounting type	Front mounting
Mounting	4x Ø 2.7 mm
Product properties	
Product type	Circular connectors (device side)
Series	ST
Application	Signal
Number of positions	17
Connection profile	17
Shielded	yes
Coding	N
Thread type	M17
Data management status	
Article revision	05
Flange dimensions	21.6 mm x 21.6 mm
riange unitensions	21.0 Hilli X 21.0 Hilli
Material 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
Electrical properties  Contact	
Contact diameter	0.6 mm
Max. current	3.6 A
Nominal voltage U <sub>N</sub>	48 V AC 74 V DC
Overvoltage category	III
Degree of pollution	3
	1.5 kV
Rated surge voltage	1.5 KV
Rated surge voltage  Connection data	1.0 KV
	1.5 KV

Socket



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### Connector

Туре	straight
Direction of rotation	Standard
Connection 1	
Head design	Socket

#### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP67	
Ambient temperature (operation)	-40 °C 125 °C	
Altitude	3000 m	

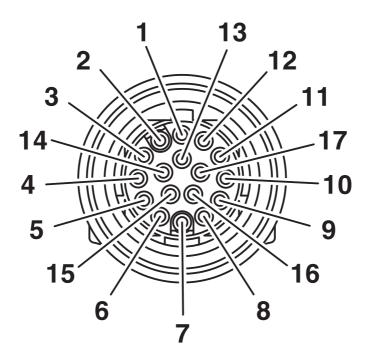


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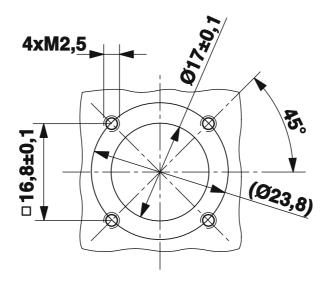
## Drawings

Schematic diagram



Connector pin assignment

Dimensional drawing

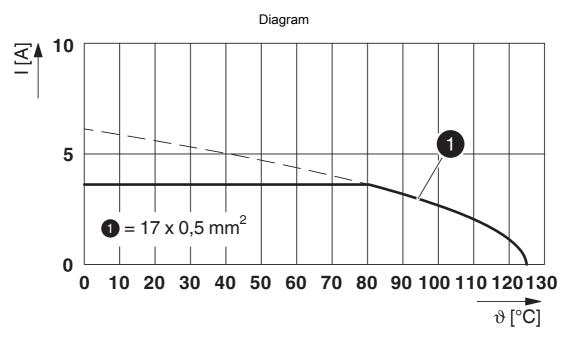


Installation dimensions



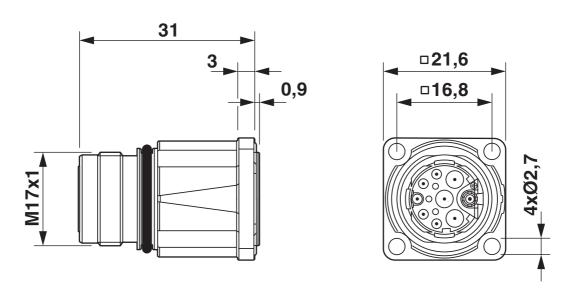
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I = current strength,  $\vartheta$  = ambient temperature, 17x 3.6 A

### Dimensional drawing



Dimensional drawing



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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1607654

.71	<b>cUL Recognized</b> Approval ID: E335019-20111129			
	Nominal voltage $\mathbf{U}_{\mathbf{N}}$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	48 V	1 A	-	-

<b>71</b>	UL Recognized Approval ID: E335019-20	0111129			
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		48 V	1 A	-	-

<b>QL Recognize</b> Approval ID: E1536	<b>d</b> 598-20140124			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	48 V	1 A	-	-

<b>.71</b>	<b>cUL Recognized</b> Approval ID: E153698-2	0140124			
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		48 V	1 A	-	-



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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, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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