

1613595

https://www.phoenixcontact.com/us/products/1613595

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Device connector front mounting, straight, for standard and SPEEDCON interlock, M17, number of positions: 5+3+PE, contact connection type: Pin, Axial O-ring, Central fixing, shielded: yes, degree of protection: IP67, number of positions: 9, connection method: Crimp connection, series: ST, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1242794

#### Your advantages

- · Application-specific wall mounting optionally with thread or anti-rotation protection and lock nut
- · Consistent EMC protection for reliable connection solutions in the industrial environment
- · Crimping connection: vibration- and temperature-resistant assembly

#### Commercial data

Item number	1613595
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB32
Product key	ABRBEL
Catalog page	Page 139 (C-2-2019)
GTIN	4046356442053
Weight per piece (including packing)	21 g
Weight per piece (excluding packing)	21 g
Customs tariff number	85366990
Country of origin	DE



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### Technical data

#### Notes

Order information:	Order crimp contacts 5 x 0.6 mm, 4 x Ø 1 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>
	<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>
	<ul> <li>Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li> </ul>
	<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</li> </ul>



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	warnings (e.g. DIN EN ISO 13732-1:2008-12).
lounting	
Mounting	Central fixing
roduct properties	
Product type	Circular connector (cable-side)
Series	ST
Application	Power
Number of positions	9
Connection profile	5+3+PE
Shielded	yes
Coding	N
Thread type	M17
Data management status	
Article revision	07
laterial specifications	
Seal material	FPM
Seal Haterial	I FIVI
Connection method	Crimp connection
lectrical properties	
Contact	
On the staff are start	4
Contact diameter	1 mm
Max. current	14 A
Max. current $\label{eq:max_norm} \mbox{Nominal voltage U}_{\mbox{N}}$	14 A 630 V
$\begin{array}{c} \text{Max. current} \\ \text{Nominal voltage U}_{\text{N}} \\ \text{Overvoltage category} \end{array}$	14 A 630 V III
Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution	14 A 630 V III 3
Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage	14 A 630 V III
Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact	14 A 630 V III 3 6 kV
Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact  Contact diameter	14 A 630 V III 3 6 kV
Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact  Contact diameter  Max. current	14 A 630 V III 3 6 kV  0.6 mm 3.6 A
Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub>	14 A 630 V III 3 6 kV  0.6 mm 3.6 A 60 V
Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category	14 A 630 V III 3 6 kV  0.6 mm 3.6 A 60 V III
Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution	14 A 630 V III 3 6 kV  0.6 mm 3.6 A 60 V III 3
Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category	14 A 630 V III 3 6 kV  0.6 mm 3.6 A 60 V III
Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage	14 A 630 V III 3 6 kV  0.6 mm 3.6 A 60 V III 3
Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution	14 A 630 V III 3 6 kV  0.6 mm 3.6 A 60 V III 3



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#### 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	2000 m
Permissible humidity (storage/transport)	50 % 65 %

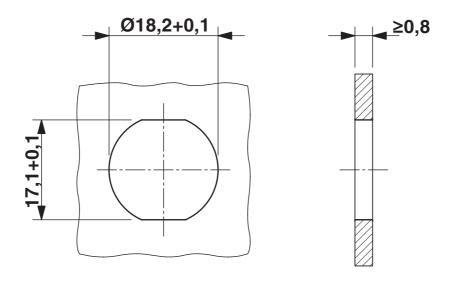


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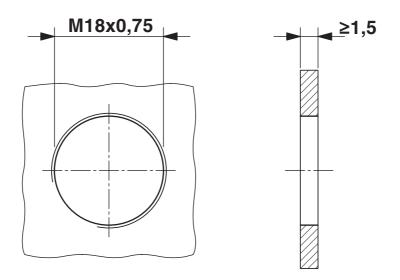
### **Drawings**

Dimensional drawing



Installation dimensions: mounting with anti-rotation protection and locking nut

Dimensional drawing



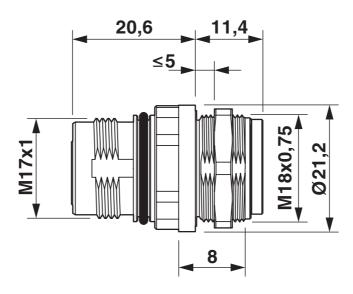
Installation dimensions: mounting with thread



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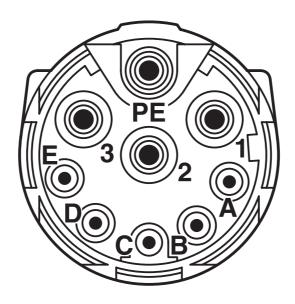
https://www.phoenixcontact.com/us/products/1613595

### Dimensional drawing



Dimensional drawing

Schematic diagram

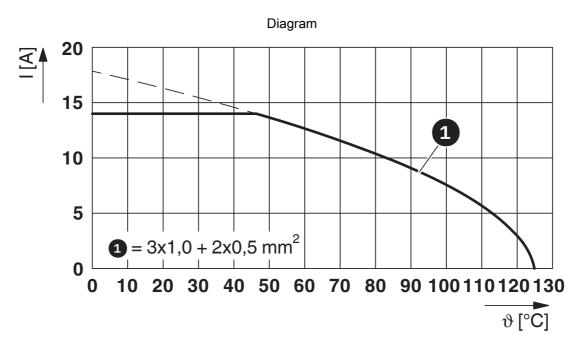


Connector pin assignment



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I = current strength,  $\vartheta$  = ambient temperature, 3x 14 A + 2x 2 A constant



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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1613595

UL Recognized Approval ID: E153698-20140124				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Power	600 V	3.5 A	-	-
Signal	60 V	3.5 A	-	-

cUL Recognized Approval ID: E153698-2	cUL Recognized Approval ID: E153698-20140124			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Power	600 V	3.5 A	-	-
Signal	60 V	3.5 A	-	-

cUL Recognized Approval ID: E335019	cUL Recognized Approval ID: E335019-20111129			
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Power	600 V	3.5 A	-	-
Signal	60 V	3.5 A	-	-

SUL Recognized Approval ID: E335019-20111129				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Power	600 V	3.5 A	-	-
Signal	60 V	3.5 A	-	-

UL Listed Approval ID: E468743-20210825				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Power	600 V	10 A	-	18 - 18
Signal	60 V	2 A	-	20 - 20

CUL Listed Approval ID: E468743-20210825				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Power	600 V	8 A	18 - 18	-
Signal	60 V	2 A	20 - 20	-



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cULus Listed



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### Classifications

#### **ECLASS**

	ECLASS-11.0	27440102		
	ECLASS-12.0	27440116		
	ECLASS-13.0	27440116		
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	063e6726-9736-4d27-afc9-89f46df7f79f



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#### Accessories

#### ST-06KP010 - Crimp contact

1607577

https://www.phoenixcontact.com/us/products/1607577



Crimp contact, Pin, turned, contact diameter: 0.6 mm, crimp range:  $0.06 \text{ mm}^2 \dots 0.25 \text{ mm}^2$ , Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1242311

#### ST-06KP020 - Crimp contact

1607578

https://www.phoenixcontact.com/us/products/1607578



Crimp contact, Pin, turned, contact diameter: 0.6 mm, crimp range: 0.14 mm $^2$  ... 0.34 mm $^2$ , Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1242311



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#### ST-06KP030 - Crimp contact

1607579

https://www.phoenixcontact.com/us/products/1607579



Crimp contact, Pin, turned, contact diameter: 0.6 mm, crimp range:  $0.34 \text{ mm}^2 \dots 0.5 \text{ mm}^2$ , Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1242312

#### ST-10KP010 - Crimp contact

1618255

https://www.phoenixcontact.com/us/products/1618255



Crimp contact, Pin, 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.: 1243215



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#### ST-10KP035 - Crimp contact

1618458

https://www.phoenixcontact.com/us/products/1618458



Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range:  $0.25 \text{ mm}^2 \dots 1 \text{ mm}^2$ , Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1%) item no.: 1243215

#### ST-Z0019 - Color coding

1620621

https://www.phoenixcontact.com/us/products/1620621

Color coding, color: green





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ST-Z0020 - Color coding

1620622

https://www.phoenixcontact.com/us/products/1620622

Color coding, color: orange



ST-Z0021 - Color coding

1620623

https://www.phoenixcontact.com/us/products/1620623

Color coding, color: black





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#### ST-E2015151 - Flat nut

1613831

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Flat nut, Screw mounting, M18 x 0,75, series: ST, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1242824



#### ST-Z0001 - Contact removal tool

1607770

https://www.phoenixcontact.com/us/products/1607770



Unlocking tool for contact carriers for snapping in the M17 device connectors



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#### ST-Z0014 - Metal protective cap

1616069

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Metal protective cap, M17, degree of protection: IP67, series: ST, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1~%) item no.: 1243010

#### ST-Z0013 - Metal protective cap

1616068

https://www.phoenixcontact.com/us/products/1616068



Metal protective cap, M17, degree of protection: IP67, series: ST, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243009



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#### PROT-M17PRO-OT-IP20 - Plastic protective cap

1055708

https://www.phoenixcontact.com/us/products/1055708



Plastic protective cap, M17, degree of protection: IP20, series: M17 PRO

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