

1618631

https://www.phoenixcontact.com/us/products/1618631

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Cable connector, straight, SPEEDCON, M17, number of positions: 6+PE, contact connection type: Socket, shielded: yes, degree of protection: IP67, cable diameter range: 5 mm ... 9.2 mm, number of positions: 7, connection method: Crimp connection, series: ST, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243251

Your advantages

- · Reduced size: ideal for compact devices
- 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	1618631
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB38
Product key	ABRSEF
Catalog page	Page 134 (C-2-2019)
GTIN	4046356807210
Weight per piece (including packing)	46.4 g
Weight per piece (excluding packing)	31.6 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Notes

Order information:	Order crimp contacts 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.
	 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 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.
	 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/or connector
	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 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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	warnings (e.g. DIN EN ISO 13732-1:2008-12).
duct properties	
Product type	Circular connector (cable-side)
Series	ST
Application	Power
Number of positions	7
Connection profile	6+PE
Shielded	yes
Coding	N
Thread type	M17
terial specifications	
Seal material	FPM
Housing material	Metal
conductor connection	Crimp connection
Connection method	Crimp connection
Contact	
	1 mm
Contact diameter	
Max. current	14 A
Max. current Nominal voltage U _N	14 A 630 V
Max. current Nominal voltage U _N Overvoltage category	14 A 630 V III
Max. current Nominal voltage U _N	14 A 630 V
Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage	14 A 630 V III 3
Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage	14 A 630 V III 3 6 kV
Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage contact Contact diameter	14 A 630 V III 3
Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage contact Contact diameter	14 A 630 V III 3 6 kV
Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage contact Contact diameter Type	14 A 630 V III 3 6 kV 1 mm
Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage contact Contact diameter	14 A 630 V III 3 6 kV
Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage contact Contact diameter Type Direction of rotation	14 A 630 V III 3 6 kV 1 mm straight Standard
Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage contact Contact diameter Type Direction of rotation	14 A 630 V III 3 6 kV 1 mm
Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage contact Contact diameter Type Direction of rotation	14 A 630 V III 3 6 kV 1 mm straight Standard
Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage contact Contact diameter Type Direction of rotation connection 1 Head design	14 A 630 V III 3 6 kV 1 mm straight Standard
Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage contact Contact diameter Type Direction of rotation connection 1 Head design Dle/line External cable diameter	14 A 630 V III 3 6 kV 1 mm straight Standard
Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage contact Contact diameter Type Direction of rotation connection 1 Head design	14 A 630 V III 3 6 kV 1 mm straight Standard Socket



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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 %

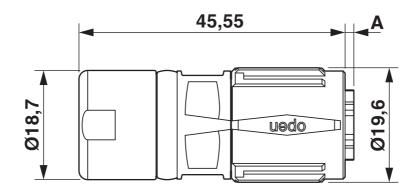


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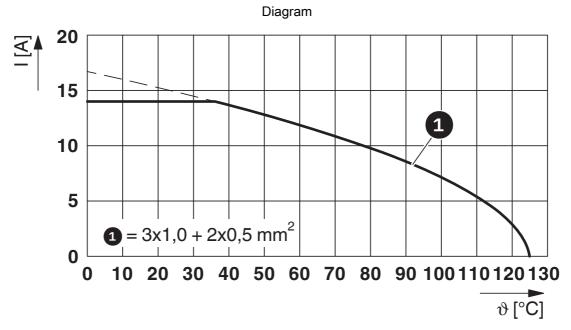


Drawings

Dimensional drawing



Technical drawings can be found under Downloads



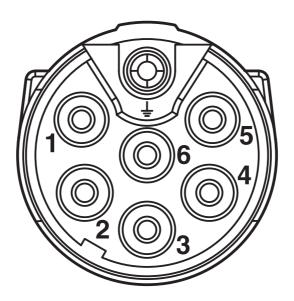
I = current strength, ϑ = ambient temperature, 3x 14 A + 2x 2 A constant



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Schematic diagram



Connector pin assignment



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1618631



cUL Recognized

Approval ID: E335019-20111129



UL Recognized

Approval ID: E335019-20111129



UL Recognized Approval ID: E153698-20140124



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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
UNS	SPSC	

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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	e0c2f82c-3c2b-4564-8845-1749218bcc15

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