

1605617

https://www.phoenixcontact.com/us/products/1605617



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Cable connector, straight long, Screw locking mechanism, M23, number of positions: 4+3+PE, contact connection type: Socket, shielded: yes, degree of protection: IP67, cable diameter range: 7.5 mm ... 18 mm, number of positions: 8, connection method: Crimp connection, series: SF, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.:

Your advantages

- · Consistent EMC protection for reliable connection solutions in the industrial environment
- · Crimping connection: vibration- and temperature-resistant assembly
- Flexible use: reliably connect cable diameters of 7.5 mm ... 18 mm
- · Molded designs with preassembled cables on one or both sides

Commercial data

Item number	1605617
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB32
Product key	ABRBFA
Catalog page	Page 154 (C-2-2019)
GTIN	4046356253970
Weight per piece (including packing)	142.2 g
Weight per piece (excluding packing)	123.9 g
Customs tariff number	85366990
Country of origin	DE



https://www.phoenixcontact.com/us/products/1605617



Technical data

Notes

al	Order crimp contacts 4 x Ø 1 mm, 4 x Ø 2 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



1605617

https://www.phoenixcontact.com/us/products/1605617

	warnings (e.g. DIN EN ISO 13732-1:2008-12).
duct properties	
Product type	Circular connector (cable-side)
Number of positions	8
Connection profile	4+3+PE
Application	Power
Series	SF
Shielded	yes
Coding	N
Thread type	M23
aterial specifications	
Seal material	FPM
Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GIZn)
Insulator material	PA 6.6
Gasket and O-ring material	FPM
Housing material	Metal
Conductor connection Connection method	Crimp connection
Conductor connection Connection method ectrical properties	Crimp connection
Conductor connection Connection method	Crimp connection
Conductor connection Connection method ectrical properties	Crimp connection 2 mm
Conductor connection Connection method ectrical properties Contact	
Conductor connection Connection method ectrical properties Contact Contact diameter	2 mm
Conductor connection Connection method ectrical properties Contact Contact diameter Max. current	2 mm 30 A
Conductor connection Connection method ectrical properties Contact Contact diameter Max. current Nominal voltage U _N	2 mm 30 A 630 V
Conductor connection Connection method ectrical properties Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category	2 mm 30 A 630 V
Conductor connection Connection method ectrical properties Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution	2 mm 30 A 630 V III 3
Conductor connection Connection method ectrical properties Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage	2 mm 30 A 630 V III 3
Conductor connection Connection method ectrical properties Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact	2 mm 30 A 630 V III 3 6 kV
Conductor connection Connection method ectrical properties Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N	2 mm 30 A 630 V III 3 6 kV
Conductor connection Connection method ectrical properties Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category	2 mm 30 A 630 V III 3 6 kV
Conductor connection Connection method ectrical properties Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution	2 mm 30 A 630 V III 3 6 kV 1 mm 9 A 250 V III 3
Conductor connection Connection method ectrical properties Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category	2 mm 30 A 630 V III 3 6 kV
Conductor connection Connection method ectrical properties Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution	2 mm 30 A 630 V III 3 6 kV 1 mm 9 A 250 V III 3



1605617

https://www.phoenixcontact.com/us/products/1605617

Head design	Socket
Cable/line	
External cable diameter	7.5 mm 18 mm
Environmental and real-life conditions	
Ambient conditions	
	IP67
Ambient conditions	IP67 -40 °C 125 °C
Ambient conditions Degree of protection	
Ambient conditions Degree of protection Ambient temperature (operation)	-40 °C 125 °C



1605617

https://www.phoenixcontact.com/us/products/1605617

Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116
ETIM	
ETIM 9.0	EC002635
UNSPSC	

39121400



1605617

https://www.phoenixcontact.com/us/products/1605617

Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com