

1605605

https://www.phoenixcontact.com/us/products/1605605

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: 15 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.: 1241940

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	1605605
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB32
Product key	ABRBFA
Catalog page	Page 154 (C-2-2019)
GTIN	4046356253932
Weight per piece (including packing)	134.2 g
Weight per piece (excluding packing)	124.2 g
Customs tariff number	85366990
Country of origin	DE



https://www.phoenixcontact.com/us/products/1605605



Technical data

Notes

General	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



1605605

https://www.phoenixcontact.com/us/products/1605605

	warnings (e.g. DIN EN ISO 13732-1:2008-12).
roduct 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
laterial specifications	
Seal material	FPM
Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GDZn)
Insulator material	PA 6.6
Gasket and O-ring material	FPM
Housing material	Metal
Conductor connection Connection method	Crimp connection
	Crimp connection
Connection method	Crimp connection
Connection method	Crimp connection
Connection method lectrical properties	Crimp connection
Connection method lectrical properties Contact	
Connection method lectrical properties Contact Contact diameter	2 mm
Connection method lectrical properties Contact Contact diameter Max. current	2 mm 30 A
Connection method lectrical properties Contact Contact diameter Max. current Nominal voltage U _N	2 mm 30 A 630 V
Connection method lectrical properties Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category	2 mm 30 A 630 V III
Connection method lectrical properties Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution	2 mm 30 A 630 V III 3
Connection method lectrical 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
Connection method lectrical 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
Connection method lectrical properties Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter	2 mm 30 A 630 V III 3 6 kV
Connection method lectrical properties Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current	2 mm 30 A 630 V III 3 6 kV
Connection method lectrical 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
Connection method lectrical 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 1 mm 9 A 250 V III
Connection method Clectrical 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
Connection method Contact Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact 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 6 kV 1 mm 9 A 250 V III 3



1605605

https://www.phoenixcontact.com/us/products/1605605

	Head design	Socket			
Са	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			



1605605

https://www.phoenixcontact.com/us/products/1605605

Classifications

UNSPSC 21.0

ECLASS

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

39121400



1605605

https://www.phoenixcontact.com/us/products/1605605

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