

1621544

https://www.phoenixcontact.com/gb/products/1621544

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.



M23, Coupler connector, series: SH, straight long, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 8+4+PE, contact connection type: Socket, Crimp connection, cable diameter range: 7.5 mm ... 18 mm, coding: N, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244440

Your advantages

- · All housing can be fitted with pin or socket contacts
- · A total of eight contacts are available for signal transmission
- · Safe use in the field, thanks to high degree of protection
- · Consistent EMC protection for reliable connection solutions in the industrial environment

Commercial data

Item number	1621544
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	ABRCDG
Product key	ABRCDG
Catalog page	Page 119 (C-2-2019)
GTIN	4046356936927
Weight per piece (including packing)	121 g
Weight per piece (excluding packing)	107.3 g
Customs tariff number	85366990
Country of origin	DE



https://www.phoenixcontact.com/gb/products/1621544



Technical data

Notes

Order information:	Crimp contacts, 8 x Ø 1 mm, 5 x Ø 2 mm, order 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



1621544

https://www.phoenixcontact.com/gb/products/1621544

	warnings (e.g. DIN EN ISO 13732-1:2008-12).
oduct properties	
Product type	Circular connector (cable-side)
Data an array array takeh in	
Data management status Article revision	12
Atticle revision	12
onnector	
Connection 1	
Head design	Socket
Insulating body	
Note	Order information: Crimp contacts, 8 x Ø 1 mm, 5 x Ø 2 mm, order separately
Protection against electric shock	IEC 61984 and VDE 0623
Coding	N
Insulation body material	PA 6.6
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Socket
Application	Hybrid
Number of positions	13
Connection profile	8+4+PE
Contact diameter Power contacts	2 mm
Litz wire cross-section Power contacts min.	0.25 mm²
Litz wire cross-section Power contacts max.	4 mm²
Rated current Power contacts	30 A
Rated surge voltage	6 kV
Rated voltage (II/3) power contact	850 V DC
Rated voltage (III/3) power contact	630 V AC
Contact diameter Signal contacts	1 mm
Litz wire cross-section Signal contacts min.	0.06 mm²
Litz wire cross-section Signal contacts max.	1 mm²
Nominal current per signal contact	8 A
Note	for max. connection cross section
Rated surge voltage	1.5 kV
Rated voltage (III/3) signal contact	50 V
Installation height	2000 m
Housing	
Note	The suitability for assembly must be checked when fully assign with maximum wire cross sections.



1621544

https://www.phoenixcontact.com/gb/products/1621544

Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)
Type of locking	for standard and SPEEDCON interlock
Pg screw connection	none
Degree of protection (plugged in)	IP67
	IP68
Thread type	M23
Seal	
External cable diameter	7.5 mm 18 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C 115 °C (see derating curve)
Ambient temperature (storage/transport)	15 °C 25 °C
Permissible humidity (storage/transport)	50 % 65 %

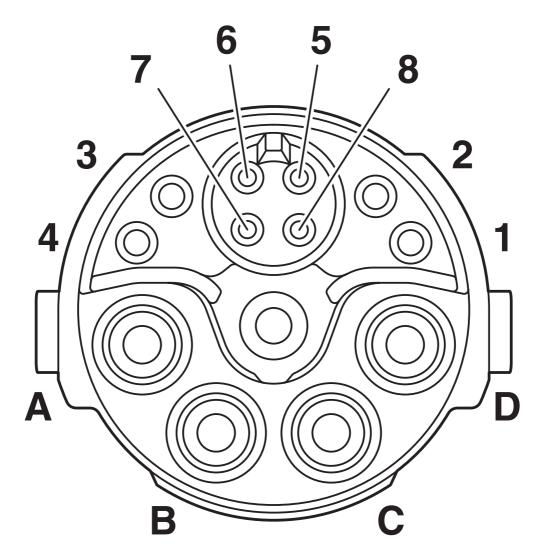


https://www.phoenixcontact.com/gb/products/1621544



Drawings



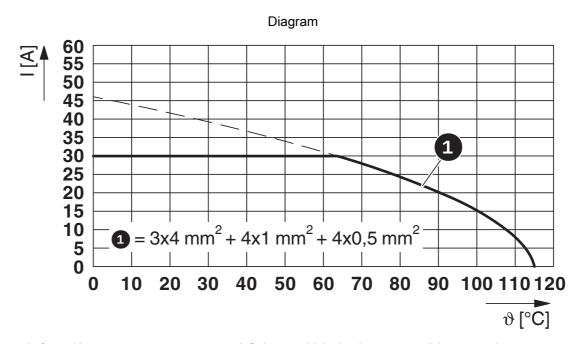


Socket pin assignment, signal



1621544

https://www.phoenixcontact.com/gb/products/1621544



I = current strength, ϑ = ambient temperature, power contacts A-C: 3 x up to 30 A, signal contacts: 4 x 2 A constant, data contacts: 4 x 1 A constant



1621544

https://www.phoenixcontact.com/gb/products/1621544

Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1621544



cUL Recognized

Approval ID: E153698-20181206



UL Recognized

Approval ID: E153698-20181206

cULus Recognized



1621544

https://www.phoenixcontact.com/gb/products/1621544

Classifications

UNSPSC 21.0

ECLASS

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

39121400



1621544

https://www.phoenixcontact.com/gb/products/1621544

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	269b79c5-43de-4a05-b2bb-7552d7ebe6d2

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

PHOENIX CONTACT Ltd Halesfield 13, Telford Shropshire, TF7 4PG 01952 681700 info@phoenixcontact.co.uk