

1621567

https://www.phoenixcontact.com/us/products/1621567

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M23, Device connector front mounting, series: SH, straight, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 4+4+4+PE / 3+N+PE, Direction of rotation: Standard, contact connection type: Socket, Crimp connection, Axial O-ring, 4x Ø 3.2, flange dimensions: 26 mm x 26 mm, coding: N

Your advantages

- · Transmission of signals, data, and power in just a single connector
- · CAT5 data interface for up to 100 Mbps
- · 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	1621567
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB33
Product key	ABRCDL
Catalog page	Page 119 (C-2-2019)
GTIN	4046356937153
Weight per piece (including packing)	54.7 g
Weight per piece (excluding packing)	40.7 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Notes

Order information:	Crimp contacts, 4x Ø 0.8 mm, 4x Ø 1 mm, 5x 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



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	warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).
ounting	
Mounting	4x Ø 3.2
roduct properties	
Product type	Circular connectors (device side)
Application	Hybrid
Data management status	
Article revision	10
imensions	
Housing	
Flange dimensions	26 mm x 26 mm
aterial specifications	
Flammability rating according to UL 94	V0
echanical properties Mechanical data	
Insertion/withdrawal cycles	100
onnector	
Туре	straight
Connection 1	
Head design	Socket
Insulating body Note	Order information: Crimp contacts, 4x Ø 0.8 mm, 4x Ø 1 mm, 5x Ø 2 mm, order separately
Protection against electric shock	IEC 61984 and VDE 0623
Data rate	100 Mbps
Coding	
coung	N
Insulation body material	N PA 6.6
Insulation body material	PA 6.6
Insulation body material Insertion/withdrawal cycles	PA 6.6 100
Insulation body material Insertion/withdrawal cycles Connection method	PA 6.6 100 Crimp connection
Insulation body material Insertion/withdrawal cycles Connection method Contact switching type	PA 6.6 100 Crimp connection Socket
Insulation body material Insertion/withdrawal cycles Connection method Contact switching type Application	PA 6.6 100 Crimp connection Socket Hybrid
Insulation body material Insertion/withdrawal cycles Connection method Contact switching type Application Number of positions	PA 6.6 100 Crimp connection Socket Hybrid 13



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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
Note	for max. connection cross section
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
Contact diameter Data contacts	0.8 mm
Litz wire cross-section Data contacts min.	0.08 mm²
Litz wire cross-section Data contacts max.	0.5 mm²
Rated current per data contact at 25°C	3.6 A
Note	for max. connection cross section
Rated voltage Data contacts	50 V
Rated surge voltage	1.5 kV
Installation height	2000 m
using	
Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)
Flange dimensions	26 mm x 26 mm
Type of locking	for standard and SPEEDCON interlock

Environmental and real-life conditions

Degree of protection (plugged in)

Ambient conditions

Thread type

Pg screw connection

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

none

IP67 IP68

M23

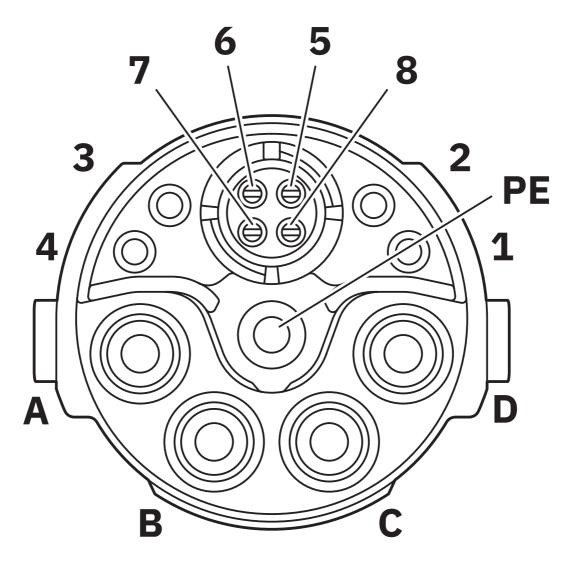


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Drawings





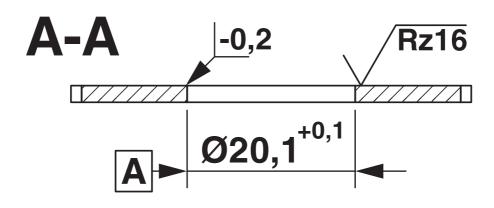
Socket pin assignment, CAT5

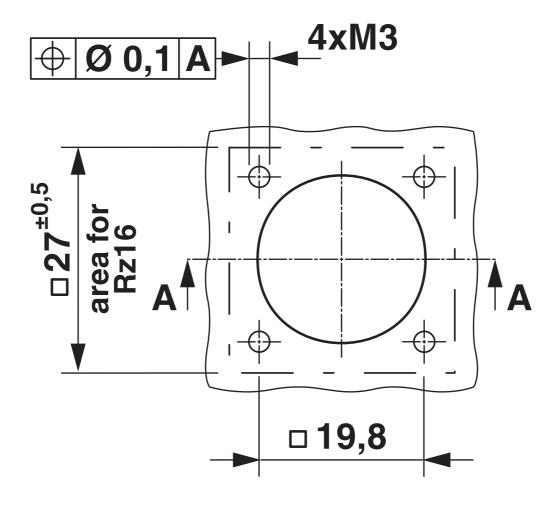


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Dimensional drawing



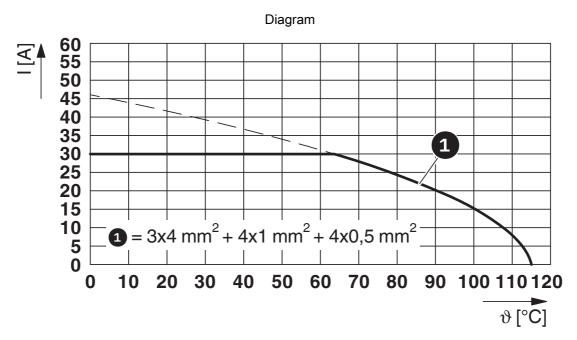


Installation dimensions



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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



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1621567

CUL Recognized Approval ID: E153698-20181206				
	Nominal voltage \mathbf{U}_{N}	Nominal current I _N	Cross section AWG	Cross section mm ²
Power	600 V	21.4 A	12 - 12	-
Control	50 V	4 A	18 - 18	-

UL Recognized Approval ID: E153698-20181206				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Power	600 V	24 A	12 - 12	-
Control	50 V	4 A	18 - 18	-

cULus Ro	cULus Recognized Approval ID: E468743-20150928			
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
Power	600 V	16 A	-	-
Signal	50 V	4 A	-	-
Data	30 V	1 A	-	-

cULus Recognized



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Classifications

UNSPSC 21.0

ECLASS

202.00				
	ECLASS-11.0	27440109		
	ECLASS-12.0	27440109		
	ECLASS-13.0	27440109		
ET	ETIM			
	ETIM 9.0	EC003569		
UN	SPSC			

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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