

1577053

https://www.phoenixcontact.com/gb/products/1577053

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.



Device connector rear mounting, 5-position, Socket, straight, M12-SPEEDCON, coding: A, on free cable end, Rear mounting, Pg9, Individual wires, cable length: 1.5 m, 0.34 mm², TPE litz wire, potted

Commercial data

Item number	1577053				
Packing unit	1 pc				
Minimum order quantity	50 pc				
Sales key	ABQCHE				
Product key	ABQCHE				
GTIN	4046356449427				
Weight per piece (including packing)	55.4 g				
Weight per piece (excluding packing)	45 g				
Customs tariff number	85444290				
Country of origin	DE				



1577053

https://www.phoenixcontact.com/gb/products/1577053

Technical data

Notes

Order information:	Lock nut is included in the scope of delivery
General	Contact connection method: Crimp connection
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 when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
	Observe the corresponding technical data. You will find information: On the product On the packing label In the supplied documentation Online at phoenixcontact.com/products under the product
	Only use tools recommended by Phoenix Contact
	 Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products
	 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



1577053

https://www.phoenixcontact.com/gb/products/1577053

	connector
	 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 warnings (e.g. DIN EN ISO 13732-1:2008-12).
ounting	
Mounting type	Rear mounting Pg9
oduct properties	
Product type	Circular connectors (device side)
Application	Signal
Number of positions	5
No. of cable outlets	1
Shielded	no
Coding	A
Thread type	M12
Insulation characteristics Overvoltage category	II
Degree of pollution	3
aterial specifications Material Molding compound	PUR (potted)
Material Molding compound	PUR (potted)
Flammability rating according to UL 94	V0
Seal material	NBR
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated
Conductor material	Tin-plated Cu litz wires
ectrical properties	
Rated surge voltage	1.5 kV AC
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	60 V
Nominal current I _N	4 A
Max. conductor resistance	57.6 mΩ/m
onnection data	
Conductor connection	
Connection method	Individual wires



1577053

https://www.phoenixcontact.com/gb/products/1577053

Conductor cross section	0.34 mm²	
Tightening torque	2 Nm 3 Nm	

Connector

Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Head locking type	SPEEDCON
Coding	A

Connection 2

Head design	free cable end
-------------	----------------

Cable/line

0.11.1.4	4.5		
Cable length	1.5 m		
Cable type	TPE litz wire		
Wire diameter incl. insulation	1.2 mm ±0.07 mm		
Single wire, color	black, brown,blue, white, gray		
Cable cross section	0.34 mm²		
Conductor material	Tin-plated Cu litz wires		
Conductor structure signal line	7x 0.25 mm		
AWG signal line	22		
Material wire insulation	TPE		
Thickness, insulation	0.21 mm		
Nominal voltage, cable	300 V		
Test voltage, cable	2000 V AC		
Cable resistance	≤ 57.6 mΩ/m		
Cable insulation resistance	≥ 20 MΩ*km		

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67 (When plugged in)	
	IP65 (When plugged in)	
	IP65/IP67	
Ambient temperature (operation)	-25 °C 85 °C (Plug / socket)	
	-25 °C 90 °C (cable, fixed installation)	
UL Type Rating	Type 4 (indoor use only)	

Standards and regulations

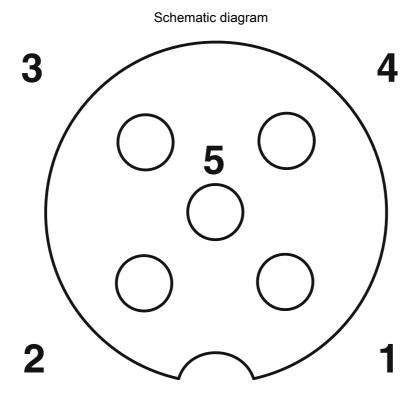
Standards/specifications	according to IEC 61076-2-101



1577053

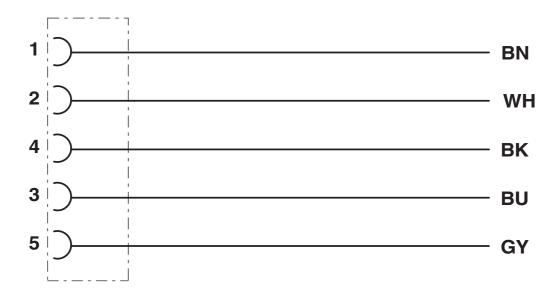
https://www.phoenixcontact.com/gb/products/1577053

Drawings



Pin assignment M12 socket, 5-pos., A-coded, socket side view

Circuit diagram



Contact assignment of the M12 socket



1577053

https://www.phoenixcontact.com/gb/products/1577053

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1577053

71	UL Recognized Approval ID: E118976-2	0100522			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		60 V	4 A	22	-

e 911 us	cULus Recognized Approval ID: E221474-20140616					
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²	
		60 V	4 A	22 - 20	-	



1577053

https://www.phoenixcontact.com/gb/products/1577053

Classifications

_	\sim	Δ	C	C
_		ч	. つ	. ``

	ECLASS-13.0	27440103
ETIM		
	ETIM 9.0	EC003570
UNSPSC		
	UNSPSC 21.0	39121400



1577053

https://www.phoenixcontact.com/gb/products/1577053

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	2c2c0a03-48ab-45ff-92ae-2869027cf2f0

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

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