

1554607

https://www.phoenixcontact.com/us/products/1554607

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 front mounting, Universal, 8-position, Socket, straight, M12-Standard, coding: A, on free cable end, Front mounting, Pg9, Individual wires, cable length: 0.5 m, 0.25 mm<sup>2</sup>, TPE litz wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1240038

#### Your advantages

- · Preassembled with litz wires for immediate use
- · Customer-specific assemblies and litz wire lengths available
- · Sealed on the litz wire side for optimum leak-tightness
- · For high transmission safety: shield connection to the housing with optional EMC nut

#### Commercial data

Item number	1554607
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCVE
Catalog page	Page 268 (C-2-2013)
GTIN	4046356170284
Weight per piece (including packing)	27.38 g
Weight per piece (excluding packing)	27.3 g
Customs tariff number	85444290
Country of origin	DE



1554607

https://www.phoenixcontact.com/us/products/1554607

## Technical data

#### Notes

Notes on operation	The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration.
General	Contact connection method: Crimp connection

#### Mounting

Mounting type	Front mounting Pg9
0.51	

#### **Product properties**

Product type	Circular connectors (device side)
Application	Signal
Sensor type	Universal
Number of positions	8
No. of cable outlets	1
Shielded	no
Coding	A
Thread type	M12
ata management status	
Article revision	08
sulation characteristics	
Overvoltage category	II
Degree of pollution	3
terial specifications	
Flammability rating according to UL 94	VO
Seal material	FKM
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 66 GF
Material for screw connection	Stainless steel
Conductor material	Tin-plated Cu litz wires

#### Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	> 100 MΩ
Nominal voltage U <sub>N</sub>	30 V (AC)



#### 1554607

https://www.phoenixcontact.com/us/products/1554607

	30 V (DC)	
Nominal current I <sub>N</sub>	2 A	
Max. conductor resistance	80 Ω/km	
Connection data		
Conductor connection		
Connection method	Individual wires	
Contact connection type	Socket	
Conductor cross section	0.25 mm <sup>2</sup>	
Tightening torque	2 Nm 3 Nm (Installation-side)	
Mechanical properties		
Mechanical data		
Insertion/withdrawal cycles	> 100	
Connector		
Connection 1	0	
Head design Head cable outlet	Socket	
	straight	
Head thread type	M12 Standard	
Head locking type Coding	A	
County	~	
Connection 2		
Head design	free cable end	
Cable/line		
Cable length	0.5 m	
Cable type	TPE litz wire	
Signal type/category	Universal	
Wire diameter incl. insulation	1.15 mm ±0.07 mm	
Single wire, color	brown, blue, white, gray, pink, green, yellow, red	
Cable cross section	0.25 mm <sup>2</sup>	
Conductor material	Tin-plated Cu litz wires	
Conductor structure signal line	14x 0.15 mm	
AWG signal line	24	
Material wire insulation	TPE	
Thickness, insulation	0.21 mm	
Nominal voltage, cable	300 V	
Test voltage, cable	2000 V AC	
Cable resistance	≤ 80 Ω/km	
Cable insulation resistance	≥ 20 MΩ*km	



#### 1554607

https://www.phoenixcontact.com/us/products/1554607

Ambient temperature (operation)	-40 °C 85 °C (cable, fixed installation)	
	-25 °C 85 °C (Cable, flexible installation)	

#### Environmental and real-life conditions

Ambient conditions		
Degree of protection	IP65/IP67/IP69/IP69K	
	IP65/IP67/IP69K	
Ambient temperature (operation)	-25 °C 85 °C (Plug / socket)	
	-40 °C 85 °C (without mechanical actuation)	
	-25 °C 85 °C (Cable, flexible installation)	
	-40 °C 85 °C (cable, fixed installation)	

#### Standards and regulations

M12

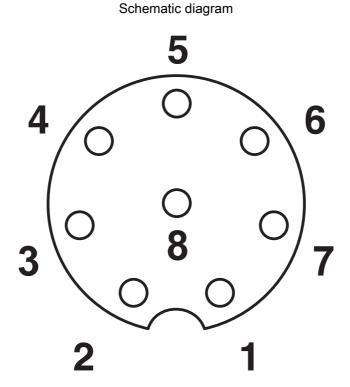
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101



1554607

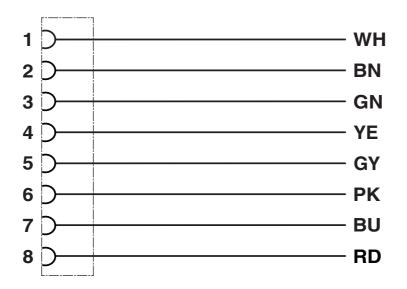
https://www.phoenixcontact.com/us/products/1554607

Drawings



Pin assignment M12 socket, 8-pos., A-coded, view female side

Circuit diagram





1554607

https://www.phoenixcontact.com/us/products/1554607

## Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1554607

Approval ID: E118976-20100522				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	30 V	2 A	24 - 24	-

c <b>91</b> .us	CULus Recognized Approval ID: E221474-20140616				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		30 V	2 A	24 - 22	-



1554607

https://www.phoenixcontact.com/us/products/1554607

## Classifications

#### ECLASS

	ECLASS-11.0	27440102
	ECLASS-12.0	27440116
	ECLASS-13.0	27440116
ET	IM	
	ETIM 9.0	EC002635
UN	SPSC	
	UNSPSC 21.0	39121400



1554607

https://www.phoenixcontact.com/us/products/1554607

## 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	848c821e-55de-43dd-ab57-2762b8780bd6

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