

1430598

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Sensor/actuator cable, 12-position, PUR halogen-free, black RAL 9005, Plug angled M12 SPEEDCON, coding: A, on free cable end, cable length: 5 m

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- · Save time, thanks to installation with SPEEDCON fast locking system
- · Our standard: robust halogen-free PUR cable
- · Save space with high-pos. connectors

Commercial data

Item number	1430598
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF03
Product key	AF1CGA
GTIN	4046356456418
Weight per piece (including packing)	319 g
Weight per piece (excluding packing)	307.7 g
Customs tariff number	85444290
Country of origin	DE



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Technical data

Product properties

Product type	Sensor/actuator cable		
Application	Standard		
Number of positions	12		
No. of cable outlets	1		
Shielded	no		
Coding	A		
Insulation characteristics			
Overvoltage category	II		
Degree of pollution	3		

Material specifications

Flammability rating according to UL 94	V0
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated

Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	30 V AC
	30 V DC
Nominal current I _N	1.5 A

Signaling

Status display	no
Status display present	no

Connection data

Conductor connection

Tightening torque	0.4 Nm (M12 connector)

Connector

Connection 1

Туре	Plug angled M12 SPEEDCON
Number of positions	12
Locking type	SPEEDCON
Coding type	A

Connection 2



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Type	free cable end
ole/line	
Cable length	5 m
UD beleves free bleek IDUD	
UR halogen-free black [PUR] Dimensional drawing	
Dimensional drawing	
Cable weight	17 kg/km
Number of positions	12
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	18x 0.10 mm
AWG signal line	26
Conductor cross section	12x 0.14 mm² (Signal line)
Wire diameter incl. insulation	1 mm ±0.05 mm (Signal line)
External cable diameter	7.20 mm
Outer sheath, material	PUR
External sheath, color	black RAL 9005
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PP
Single wire, color	white, brown, green, yellow, gray, pink, blue, red, black, violet, gray/pink, red/blue
Overall twist	12 wires twisted in layers
Max. conductor resistance	142 Ω/km
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 1500 V
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	36 mm
Smallest bending radius, movable installation	72 mm
Dynamic load capacity (bending)	Max. bending cycles: 4000000, Bending radius: 54 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s²
Halogen-free	in accordance with DIN EN 50267-2-1
Flame resistance	in acc. to UL VW1
	DIN EN 60332-1-2
Resistance to oil	EN 60811-2-1
Other resistance	EN 50525-2-21:2012-01



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	partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)	
Special properties	Low adhesion surface	
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)	
	-5 °C 80 °C (Cable, flexible installation)	

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation) (male connector/female connector)	-25 °C 85 °C (Plug / socket)
Ambient temperature (operation) (Cable, fixed installation)	-40 °C 80 °C (cable, fixed installation)
Ambient temperature (operation) (Cable, flexible installation)	-20 °C 80 °C (Cable, flexible installation)

Standards and regulations

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

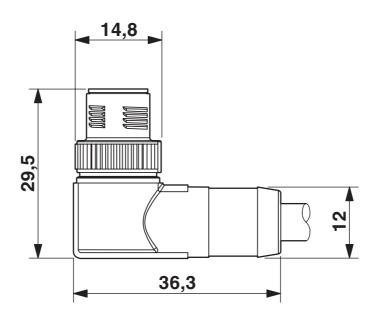


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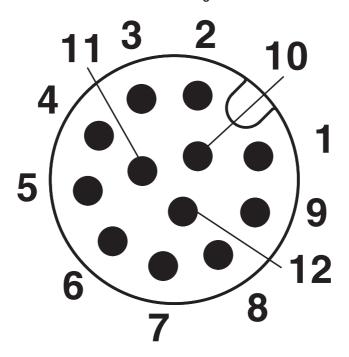
Drawings

Dimensional drawing



Plug M12 SPEEDCON, angled, shielded

Schematic diagram

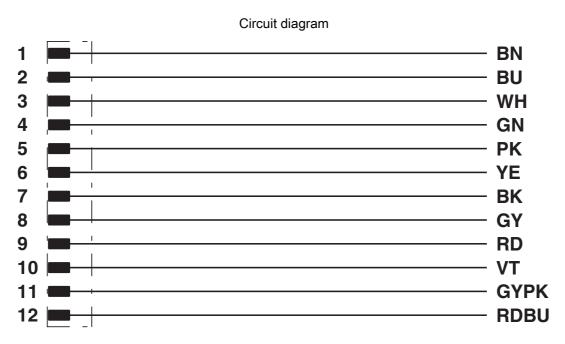


Pin assignment M12 male connector, 12-pos., male side view



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Contact assignment of the M12 plug



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1430598

UL Listed Approval ID: E221474				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	30 V	1 A	-	-

EAC-RoHS
Approval ID: RU D-DE.HB35.B.00387



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Classifications

ECLASS

	ECLASS-13.0	27060311	
	ECLASS-15.0	27060311	
ETIM			
ETIM			
	ETIM 9.0	EC001855	
UNSPSC			
	UNSPSC 21.0	26121600	



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Environmental product compliance

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%		
EF3.0 Climate Change			
CO2e kg	4.923 kg CO2e		

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