

SAC-3P-P12MS/ 0,6-PUR/P12FS - Sensor/actuator cable



1386786

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12 Push Pull, coding: A, on Socket straight M12 Push Pull, coding: A, cable length: 0.6 m

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Save time, thanks to installation with push-pull fast locking

Commercial data

Item number	1386786
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AF1CBC
Product key	AF1CBC
GTIN	4063151818715
Weight per piece (including packing)	42,6 g
Weight per piece (excluding packing)	44,035 g
Customs tariff number	85444290
Country of origin	PL

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Technical data

Product properties

Application	Standard
Number of positions	3
No. of cable outlets	1
Shielded	no
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Material	PK (Pin contact carrier) (Female connector contact carrier)
Flammability rating according to UL 94	V0
Seal material	FKM
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuSn
Contact surface material	Ni/Au
Material for screw connection	Brass, nickel-plated

Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	250 V AC 250 V DC
Nominal current I_N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Signaling

Status display	no
Status display present	no

Connection data

Conductor connection

Tightening torque	M12 push-pull connectors
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Connector

Connection 1

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Type	Plug straight M12 Push Pull
Number of positions	3
Locking type	Push Pull
Coding type	A

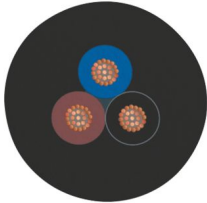
Connection 2

Type	Socket straight M12 Push Pull
Number of positions	3
Locking type	Push Pull
Coding type	A

Cable/line

Cable length	0.6 m
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PUR halogen-free black [PUR]

Dimensional drawing		
Cable weight	23 kg/km	
UL AWM Style	20549	
Number of positions	3	
Shielded	no	
Cable type	PUR halogen-free black [PUR]	
Conductor structure signal line	42x 0.10 mm	
AWG signal line	22	
Conductor cross-section	3x 0.34 mm ² (Signal line)	
Wire diameter incl. insulation	1.27 mm ±0.02 mm (Signal line)	
External cable diameter	3.85 mm ±0.15 mm	
Outer sheath, material	PUR	
External sheath, color	black-gray RAL 7021	
Conductor material	Bare Cu litz wires	
Material wire insulation	PP	
Single wire, color	brown, blue, black	
Thickness, insulation	≥ 0.21 mm (Core insulation)	
	approx. 0.50 mm (Outer cable sheath)	
Overall twist	3 wires, twisted	
Max. conductor resistance	max. 58 Ω/km (at 20 °C)	
Insulation resistance	≥ 100 GΩ*km (at 20 °C)	
Nominal voltage, cable	≤ 300 V	
Test voltage	≥ 3000 V	

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Smallest bending radius, fixed installation	19 mm
Smallest bending radius, movable installation	38 mm
Dynamic load capacity (bending)	Max. bending cycles: 10000000, Bending radius: 38 mm, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s ²
Dynamic load capacity (torsion)	Torsion: $\pm 180^\circ/\text{m}$, Torsion cycles: ≥ 2000000 , Torsional frequency: 35 cycles/min.
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	in accordance with UL 758/1581 FT2 DIN EN 60332-2-2 (20 s)
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Highly resistant to acids, alkaline solutions and solvents hydrolysis and microbe resistant partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
Special properties	Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -25 °C ... 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65 IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 85 °C (Plug)
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation)

Standards and regulations

Standard designation	M12-Push-Pull
Standards/specifications	IEC 61076-2-010

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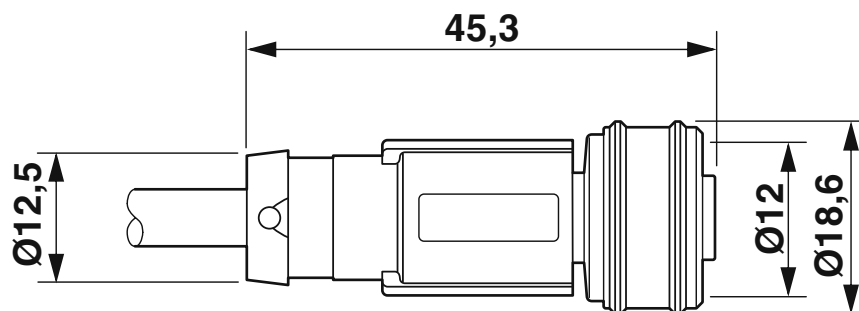
Drawings

Dimensional drawing



M12 push-pull male connector, straight

Dimensional drawing



M12 push-pull female connector, straight

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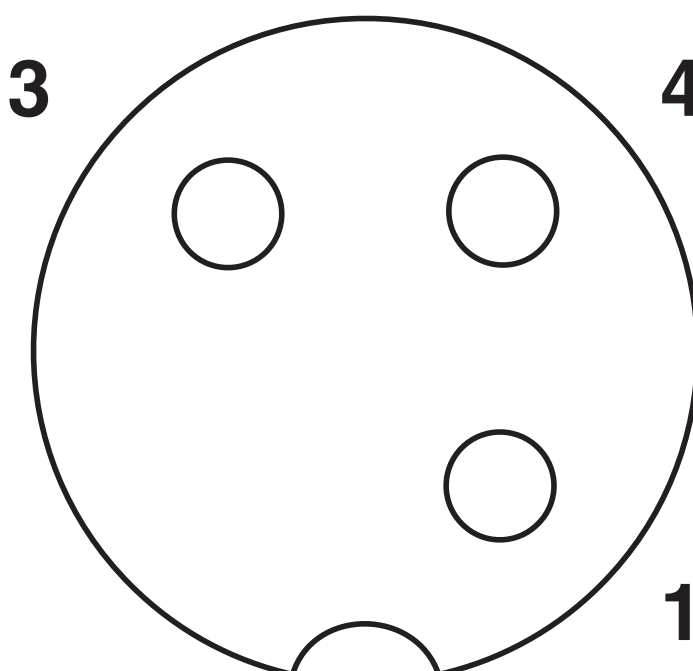
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Schematic diagram



Pin assignment M12 male connector

Schematic diagram



Pin assignment socket M 12

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Circuit diagram



Contact assignment of the M12 plug and the M12 socket

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Approvals

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 cULus Listed Approval ID: E221474				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	300 V	4 A	- 22	-

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Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

ETIM 10.0	EC001855
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UNSPSC

UNSPSC 21.0	26121600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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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