

SAC-4P- 1,5-PVC/M 8FS - Sensor/actuator cable



1415550

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Sensor/actuator cable, 4-position, PVC, black RAL 9005, free cable end, on Socket straight M8, coding: A, cable length: 1.5 m

Your advantages

- Easy and safe: 100 % electrically tested plug-in components

Commercial data

Item number	1415550
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF01
Product key	AF1BCA
GTIN	4055626049342
Weight per piece (including packing)	49 g
Weight per piece (excluding packing)	49.48 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	4
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	HB
Seal material	NBR
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated

Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	48 V AC
	60 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

Connector

Connection 1

Type	free cable end
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Connection 2

Type	Socket straight M8
Number of positions	4

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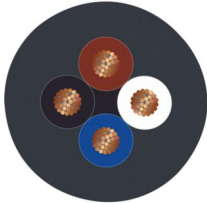
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Coding type	A
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Cable/line

Cable length	1.5 m
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PVC black [PVC]

Dimensional drawing		
Cable weight	33 kg/km	
UL AWM Style	2464 / 1729 (80°C/300 V)	
Number of positions	4	
Shielded	no	
Cable type	PVC black [PVC]	
Conductor structure signal line	14x 0.15 mm	
AWG signal line	24	
Conductor cross-section	4x 0.25 mm² (Signal line)	
Wire diameter incl. insulation	1.17 mm ±0.05 mm	
External cable diameter	4.40 mm ±0.15 mm	
Outer sheath, material	PVC	
External sheath, color	black RAL 9005	
Conductor material	Bare Cu litz wires	
Material wire insulation	PVC	
Single wire, color	brown, white, blue, black	
Thickness, insulation	≥ 0.23 mm (Core insulation)	
	≥ 0.76 mm (Outer cable sheath)	
Overall twist	4 wires, twisted	
Max. conductor resistance	max. 79 Ω/km (at 20 °C)	
Insulation resistance	≥ 100 MΩ*km (at 20 °C)	
Nominal voltage, cable	≤ 300 V	
Test voltage	≥ 3000 V	
Minimum bending radius, fixed installation	5 x D	
Smallest bending radius, fixed installation	22 mm	
Flame resistance	As per UL-Style 2464	
Resistance to oil	EN 60811-2-1	
Ambient temperature (operation)	-25 °C ... 80 °C (cable, fixed installation)	
	-10 °C ... 80 °C (Cable, flexible installation)	

Environmental and real-life conditions

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Ambient conditions

Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 90 °C (Plug / socket)

Standards and regulations

M8

Standard designation	M8 connector
Standards/specifications	IEC 61076-2-104

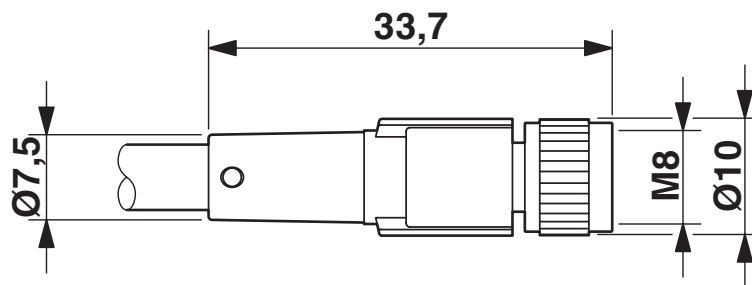
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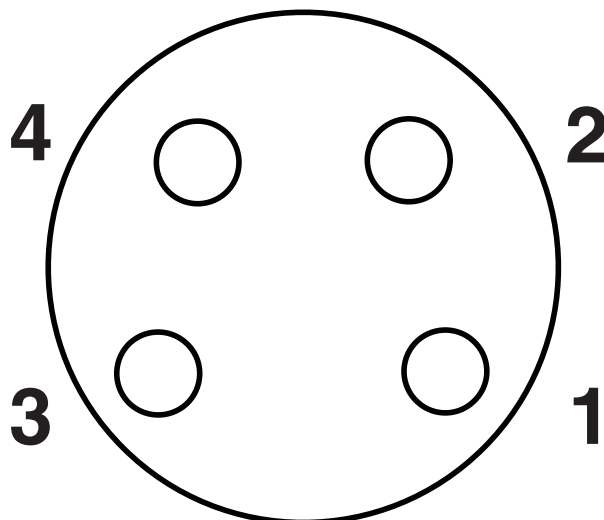
Drawings

Dimensional drawing



Socket M8 x 1, straight

Schematic diagram



Pin assignment M8 socket, 4-pos., view female side

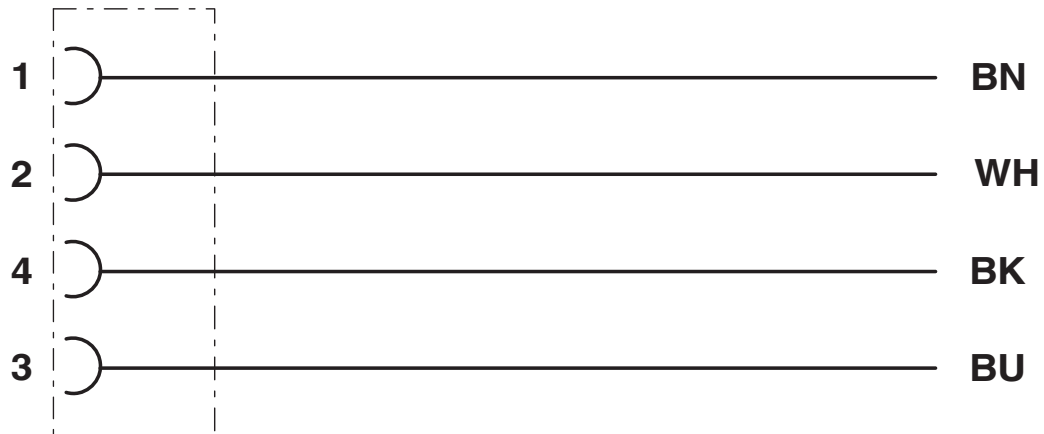
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Circuit diagram



Contact assignment of M8/M12 plugs/sockets

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Approvals

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 UL Listed Approval ID: FILE E 221474				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	30 V	4 A	-	-

 cUL Listed Approval ID: FILE E 221474				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	30 V	4 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 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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EF3.1 Climate Change

CO2e kg	0.631 kg CO2e
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