


SAC-8P-M 8MS/ 3,0-PUR/M 8FS

Order No.: 1404200



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Sensor/Actuator cable, 8-position, PUR halogen-free, Black RAL 9005, Plug straight M8, on Socket straight M8, Cable length: 3 m

Commercial data	
EAN	4  046356 681209
Note	Made-to-order
sales group	D132
Pack	1 Pcs.
Customs tariff	85444290
Gross weight in pieces	0.1165 KG
Net weight per piece	0.02222 KG
Catalog page information	Page 58 (C-4-2013)

Product notes

WEEE/RoHS-compliant since: 07/20/2011



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Technical data	
Dimensions	
Length of cable	3 m
Ambient conditions	
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
Degree of protection	IP65
	IP67
	IP68

General

Rated current at 40°C	1.5 A
Rated voltage	30 V
Number of positions	8
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Standards/regulations	M8 connector IEC 61076-2-104
Status display	No
Protective circuit/component	Unwired
Pollution degree	3
Insertion/withdrawal cycles	≥ 100
Torque	0.2 Nm (M8 connectors)

Material

Inflammability class according to UL 94	HB
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, nickel-plated

Cable

Cable abbreviation	Li9Y11Y
UL AWM style	20549
Conductor cross section	8x 0.14 mm ² (signal line)
AWG signal line	26
Conductor structure signal line	18x 0.10 mm
Core diameter including insulation	1 mm ±0.02 mm (signal line)
Thickness, insulation	≥ 0.21 mm (signal line) ≥ 0.38 mm (Outer cable sheath)
Wire colors	white, brown, green, yellow, gray, pink, blue, red
Overall twist	8 wires around filler to the core
Length of twist, overall twist	58 mm
External sheath, color	black-gray RAL 7021
External cable diameter D	5.1 mm ±0.15 mm

Smallest bending radius, fixed installation	25.5 mm
Smallest bending radius, movable installation	51 mm
Number of bending cycles	4000000
Bending radius	51 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s ²
Outer sheath, material	PUR
Material, filler	PE
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Insulation resistance	1 GΩ*km (at 20 °C)
Conductor resistance	139 Ω/km (at 20 °C)
Nominal voltage, cable	≤ 300 V AC
Test voltage, cable	≥ 3000 V AC (Spark test)
Flame resistance	according to UL 758/1581 (horizontal)
	In accordance with UL 758/1581 FT2
Halogen-free	in accordance with DIN VDE 0472 part 815
	in accordance with DIN EN 50267-2-1
Resistance to oil	According to DIN EN 60811-2-1, 168 h at 100°C
Other resistance	hydrolysis and microbe resistant
	Resistant to salt water
	Low adhesion
	abrasion-resistant
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-25 °C ... 80 °C (cable, flexible installation)

Certificates / Approvals

Certification

Certifications applied for:

Certification Ex:

Accessories

Item	Designation	Description
Marking		
1051993	B-STIFT	Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm
1013944	PABA RD/15	Insert label, Strip, red, unlabeled, can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm
1013151	PABA WH/15	Insert label, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm
1013698	PABA YE/15	Insert label, Strip, yellow, unlabeled, can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm
1013122	PATO 2/15	Conductor marker carrier, transparent, unlabeled, Mounting type: clip on, Cable diameter: 2.8-4.4 mm, Lettering field: 4 x 15 mm
1013135	PATO 3/15	Conductor marker carrier, transparent, unlabeled, Mounting type: clip on, Cable diameter: 4.4-6.7 mm, Lettering field: 4 x 15 mm
1013148	PATO 4/15	Conductor marker carrier, transparent, unlabeled, Mounting type: clip on, Cable diameter: 6.7-10 mm, Lettering field: 4 x 15 mm

Protection and sealing elements

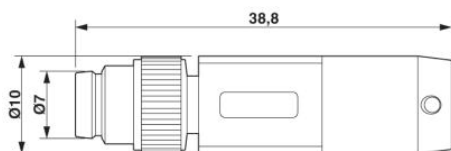
1430857	PROT-M 8 FS-PA-CHAIN	M8 sealing cap made of plastic with fixing band for sensor cables, for M8 plugs
1430860	PROT-M 8 MS-PA-CHAIN	M8 sealing cap made of plastic with fixing band for sensor cables, for M8 sockets

Tools

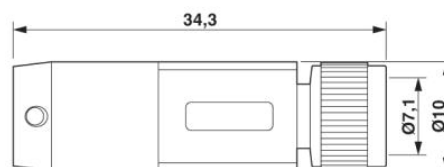
1208461	SAC BIT M8-D10	Nut for assembling sensor/actuator cables with M8 connector and for M8 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive
1208487	TSD 02 SAC	Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors

Drawings

Dimensioned drawing

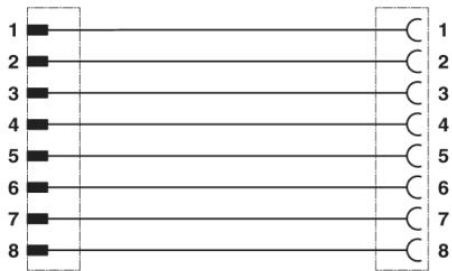


M8 x 1 male plug, straight version



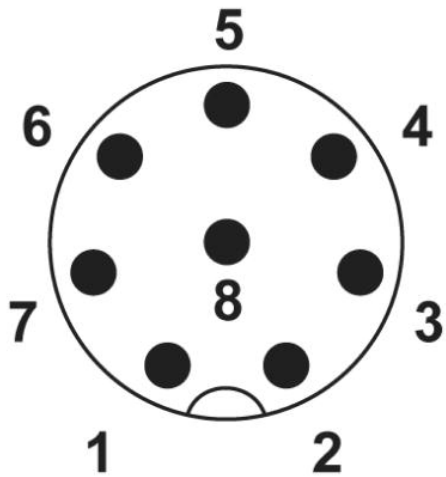
Socket M8 x 1, straight

Circuit diagram

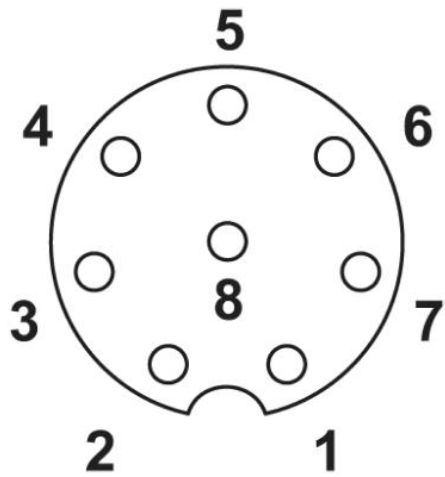


Contact assignment of M8 plugs/sockets

Schematic diagram



M8 plug pin assignment, 8-pos., view of pin side



Connector pin assignment of M8 socket, 8-pos., view of socket side

PUR halogen-free black [PUR]



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