

1407823

<https://www.phoenixcontact.com/us/products/1407823>

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M12 socket, angled, 8-pos., with connected master cable, for sensor/actuator box with M8 slots, cable length: 10 m

Commercial data

Item number	1407823
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF03
Product key	BF1CFA
Catalog page	Page 311 (C-2-2019)
GTIN	4046356857512
Weight per piece (including packing)	450.9 g
Weight per piece (excluding packing)	447.9 g
Customs tariff number	85444290
Country of origin	PL

# SAC-8P-10,0-PURMC/M12FR - Master cable



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## Technical data

### Product properties

Product type	Master cable, assembled
Number of positions	8
Application	Sensor/actuator box
Number of slots	6
Coding	A

### Electrical properties

Nominal voltage $U_N$	30 V AC
	30 V DC

### Connection data

Connection method	Fixed connection
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### Signaling

Status display present	No
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### Material specifications

Material Housing	PUR
Material Threaded sleeve	Cu alloy
Flammability rating according to UL 94	HB
Seal material	NBR
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	TPU GF

### Connector


#### Connection 1

Coding type	A
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### Cable/line

Cable length	10 m
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#### PUR halogen-free black [PUR]

Dimensional drawing	
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Cable weight	46 kg/km
UL AWM Style	20549 / 10493 (80°C/300 V)
Number of positions	8
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	32x 0.10 mm
AWG signal line	24
Conductor cross section	8x 0.25 mm <sup>2</sup> (Signal line)
Wire diameter incl. insulation	1.17 mm ±0.02 mm
External cable diameter	5.90 mm ±0.15 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material, filler	PE
Material wire insulation	PP
Single wire, color	white, brown, green, yellow, gray, pink, blue, red
Thickness, insulation	≥ 0.21 mm
Thickness, outer sheath	approx. 0.80 mm
Overall twist	8 wires around filler to the core
Max. conductor resistance	≤ 78 Ω/km
Insulation resistance	≥ 1 GΩ*km
Wave impedance	100 Ω +15 % (with 1 MHz)
Cable capacity	≤ 70 pF/m
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 3000 V
Minimum bending radius, fixed installation	8 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	48 mm
Smallest bending radius, movable installation	59 mm
Max. bending cycles	4000000
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	in accordance with UL 758/1581 FT2 According to 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) Low adhesion abrasion-resistant
Special properties	Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish flexible

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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
	IP68
Ambient temperature (operation)	-25 °C ... 80 °C (Plug / socket)

## Standards and regulations

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

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## Classifications

### ECLASS

ECLASS-11.0	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060311

### ETIM

ETIM 9.0	EC001855
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### UNSPSC

UNSPSC 21.0	26121600
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## Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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