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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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## Sensor/Actuator cable - SAC-5P-M 8MRB/ 3,0-115 - 1404466

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Sensor/Actuator cable, 5-position, PUR, Black-gray RAL 7021, Plug angled M8, B-coded, on Free cable end, Cable length: 3 m

### Product Features

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Our standard: robust halogen-free PUR cable



### Key commercial data

Packing unit	1 PCE
GTIN	 4 046356 696852
Custom tariff number	85444290
Country of origin	GERMANY

### Technical data

#### General data

Rated current at 40°C	3 A
Rated voltage	30 V
Number of positions	5
Volume resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Length of cable	3 m
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)

#### General characteristics

Standards/regulations	M8 plug-in connector IEC 61076-2-104
Coding	B - inverse

## Sensor/Actuator cable - SAC-5P-M 8MRB/ 3,0-115 - 1404466

### Technical data

#### General characteristics

Surge voltage category	II
Pollution degree	3
Degree of protection	IP65
Degree of protection	IP67
Degree of protection	IP68
Insertion/withdrawal cycles	≥ 100
Torque	0.2 Nm (M8 plug-in connectors)
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
Sealing material	NBR
Status display	No

#### Conductor data

Cable type	PUR halogen-free black
Cable type (abbreviation)	115
Cable abbreviation	Li9Y11Y
UL AWM style	20549
Conductor cross section	0.25 mm <sup>2</sup>
AWG signal line	24
Conductor structure signal line	32x 0.10 mm
Core diameter including insulation	1.17 mm ±0.02 mm
Thickness, insulation	approx. 0.21 mm (Core insulation)
Thickness, insulation	approx. 0.7 mm (Outer cable sheath)
Wire colors	Brown, white, blue, black, gray
Overall twist	5 cores, twisted
Length of twist, overall twist	75 mm
External sheath, color	Black-gray RAL 7021
External cable diameter D	4.7 mm ±0.15 mm
Smallest bending radius, fixed installation	23.5 mm
Smallest bending radius, movable installation	47 mm
Number of bending cycles	4000000
Bending radius	47 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s <sup>2</sup>

## Sensor/Actuator cable - SAC-5P-M 8MRB/ 3,0-115 - 1404466

### Technical data

#### Conductor data

Cable weight	30 kg/km
Outer sheath, material	PUR
Material, filler	PP
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Insulation resistance	$\geq 1 \text{ G}\Omega\cdot\text{km}$
Conductor resistance	$\leq 75 \text{ }\Omega/\text{km}$
Nominal voltage, conductor	$\leq 300 \text{ V (AC)}$
Test voltage, conductor	$\geq 3000 \text{ V (AC)}$
Flame resistance	according to UL 758/1581 (horizontal)
Flame resistance	In accordance with UL 758/1581 FT2
Halogen-free	in accordance with DIN VDE 0472 part 815
Halogen-free	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
Other resistance	Resistant to salt water
Other resistance	Low adhesion
Other resistance	abrasion-resistant
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
Ambient temperature (operation)	-25 °C ... 80 °C (cable, flexible installation)

### Classifications

#### ETIM

ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

#### UNSPSC

UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501
UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501

#### eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306

## Sensor/Actuator cable - SAC-5P-M 8MRB/ 3,0-115 - 1404466

### Classifications

#### eCl@ss

eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801

### Accessories

#### Accessories

#### Marking

##### Insert label - PABA WH/15 - 1013151



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

##### Insert label - PABA YE/15 - 1013698



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

##### Insert label - PABA RD/15 - 1013944



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

##### Conductor marker carrier - PATG 2/23 - 1013850



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 2-4 mm, Lettering field: 4 x 23 mm

## Sensor/Actuator cable - SAC-5P-M 8MRB/ 3,0-115 - 1404466

### Accessories

Conductor marker carrier - PATG 3/23 - 1013863



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 4-7 mm, Lettering field: 4 x 23 mm

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Conductor marker carrier - PATG 4/23 - 0808011



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 6-10 mm, Lettering field: 4 x 23 mm

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Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

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### Protection and sealing elements

Sealing cap - PROT-M 8 FS-PA-CHAIN - 1430857

M8 sealing cap made of plastic with fixing band for sensor cables, for M8 plugs



### Tools

Cable-cutting tool - CUTFOX-S VDE - 1212207



Diagonal cutter for copper and aluminum conductors, VDE-tested

## Sensor/Actuator cable - SAC-5P-M 8MRB/ 3,0-115 - 1404466

### Accessories

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Stripping tool - WIREFOX SAC - 1212623



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from  $\varnothing$  of 4.4 to 7 mm, any stripping length

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Stripping tool - WIREFOX 10 - 1212150



Stripping tool, for cables and conductors from 0.02 - 10 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, replaceable stripping blade

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Torque screwdriver - TSD 02 SAC - 1208487



Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors

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Tool - SAC BIT M8-D10 - 1208461



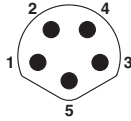
Nut for assembling sensor/actuator cables with M8 connector and for M8 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

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### Drawings

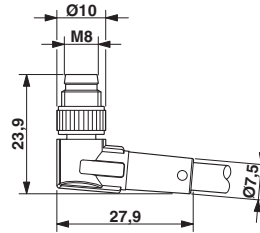
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Schematic diagram



Pin assignment, pin side, M8, 5-pos., B-coded

Dimensioned drawing



M8 x 1 male plug, angled version

Circuit diagram



Contact assignment of the M8 plug