

## Sensor/actuator cable - SAC-6P-MICMR-MICFS/.../... - 1547494

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Sensor/actuator cable, 6-position, Variable cable type, Plug angled 1/2"-20UNF, coding: C, on Socket straight 1/2"-20UNF, coding: C, cable length: Free input (0.2 ... 40.0 m)

### Your advantages

- Easy and safe: 100% electrically tested plug-in components
- Flexible solutions - configurable materials with variable cable types and cable lengths
- Adapted: 1/2"-20UNF connectors with C-coding for the North American market

**RoHS**

### Key Commercial Data

Packing unit	1 pc
Minimum order quantity	25 pc
Custom tariff number	85444290
Country of origin	Poland

### Technical data

#### Note

Trade restriction	The products are offered exclusively for export outside the EU and the European Economic Area.
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#### Dimensions

Length of cable	Free input (0.2 ... 40.0 m)
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#### Ambient conditions

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

# Sensor/actuator cable - SAC-6P-MICMR-MICFS/.../... - 1547494

## Technical data

### General

Rated current at 40°C	2 A
Rated voltage	30 V AC
	30 V DC
Number of positions	6
Color handle area	yellow
Insulation resistance	$\geq 100 \text{ M}\Omega$
Coding	C - dual keyway
Status display	No
Protective circuit/component	unwired
Overshoot category	II
Degree of pollution	3
Test voltage	800 V
Insertion/withdrawal cycles	$\geq 100$

### Material

Flammability rating according to UL 94	HB
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Nickel-plated brass
Sealing material	NBR

### Line characteristics

Note	This item is a sensor/actuator cable with a freely selectable cable type. The technical data for all possible cable types is listed in the table below.
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### Standards and Regulations

Flammability rating according to UL 94	HB
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### PVC yellow 105 °C [542]

Cable type	PVC yellow 105 °C
Cable type (abbreviation)	542
Conductor cross section	0.34 mm <sup>2</sup>
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	1.55 mm $\pm 0.05$ mm
Thickness, insulation	$\geq 0.38$ mm (Core insulation)
	$\geq 0.76$ mm (Outer cable sheath)
Wire colors	red/black, red/white, red, green, red/yellow, red/blue

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### Technical data

#### PVC yellow 105 °C [542]

Overall twist	Six pairs around the filler to the core
External sheath, color	yellow
External cable diameter	6.40 mm
Cable weight	63 kg/km
Outer sheath, material	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Insulation resistance	$\geq 100 \text{ M}\Omega\text{km}$
Conductor resistance	$\leq 58 \text{ }\Omega/\text{km}$
Nominal voltage, cable	300 V
Test voltage, cable	3000 V

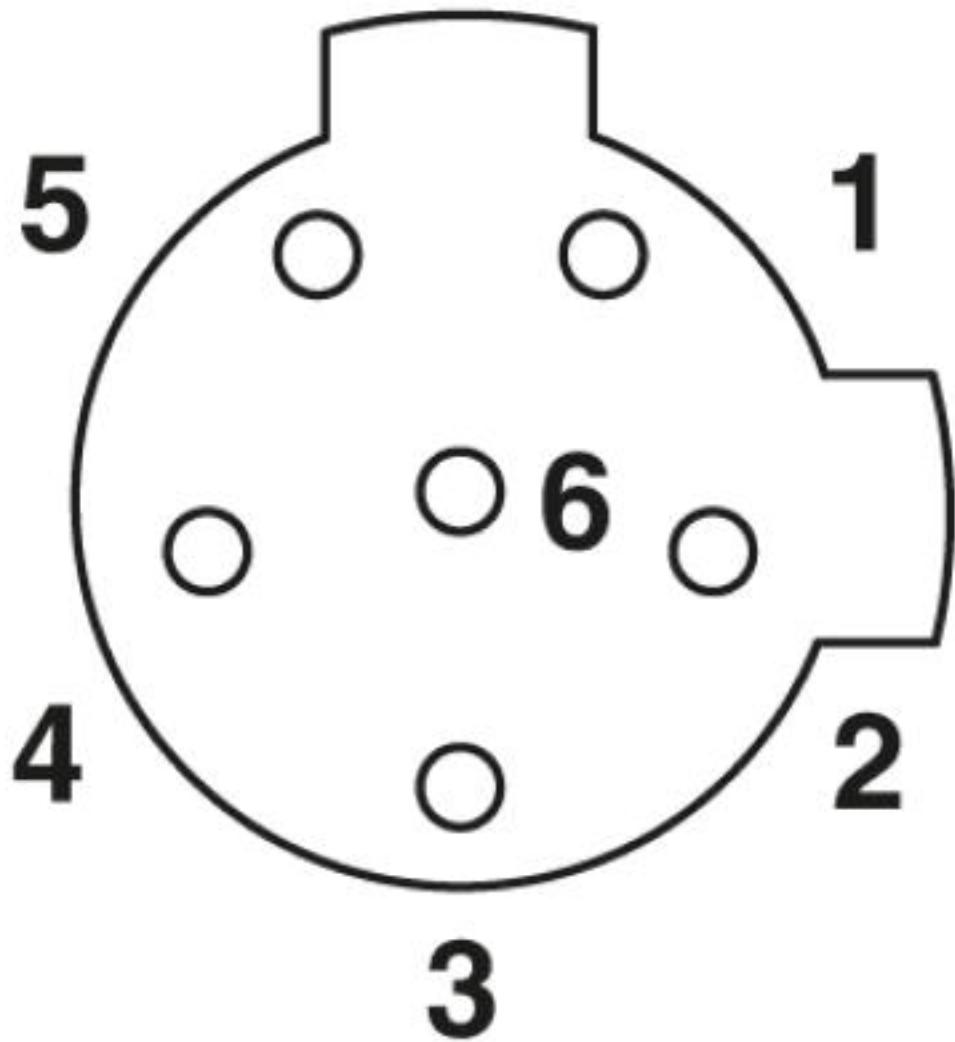
#### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

### Drawings

## Sensor/actuator cable - SAC-6P-MICMR-MICFS/.../... - 1547494

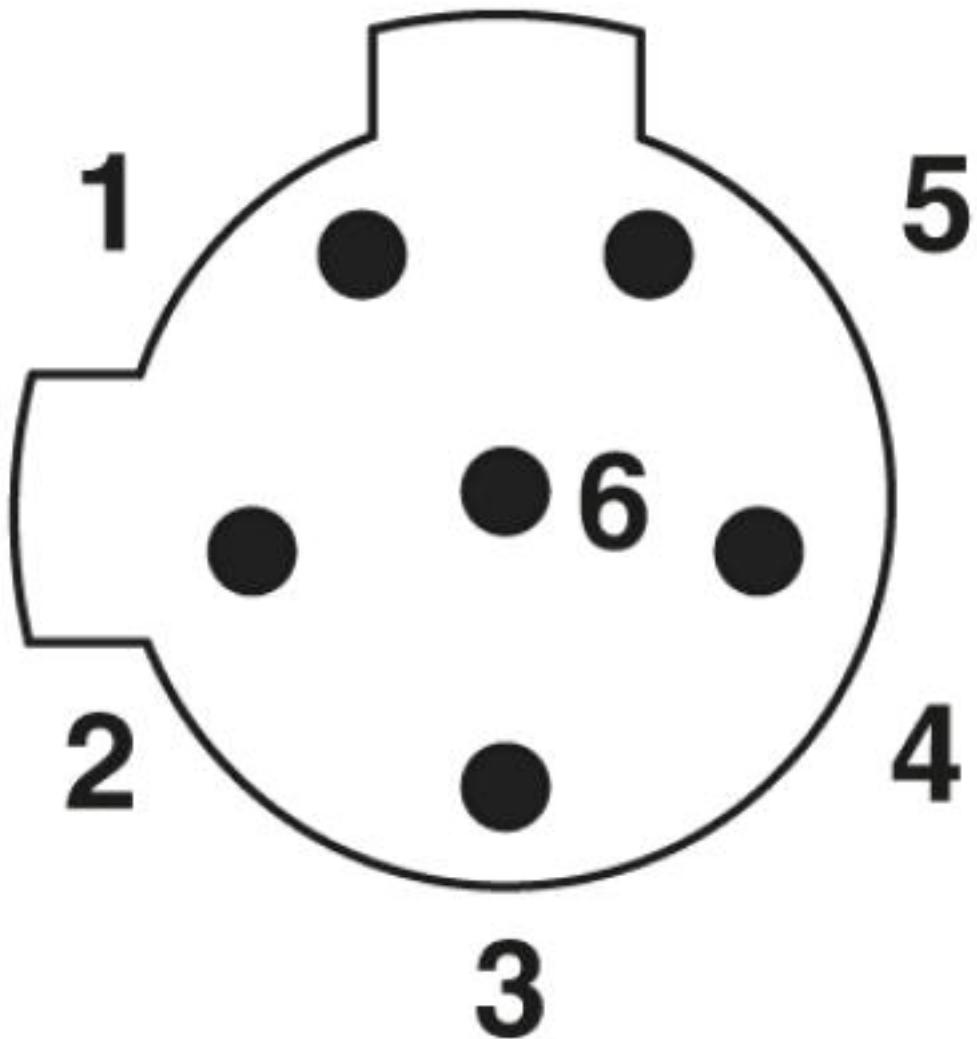
Schematic diagram



Pin assignment 1/2"-20UNF socket, 6-pos., view female side

## Sensor/actuator cable - SAC-6P-MICMR-MICFS/.../... - 1547494

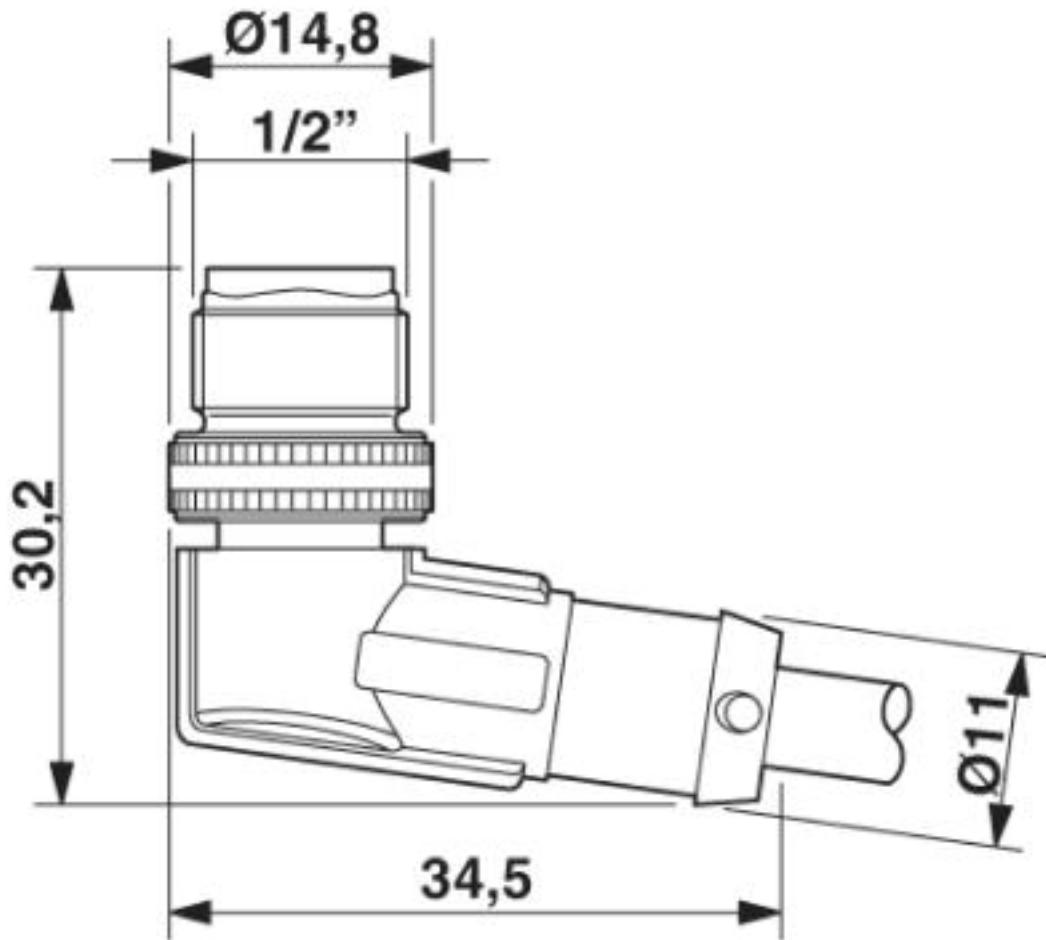
Schematic diagram



Pin assignment 1/2"-20UNF plug, 6-pos., view male side

## Sensor/actuator cable - SAC-6P-MICMR-MICFS/.../... - 1547494

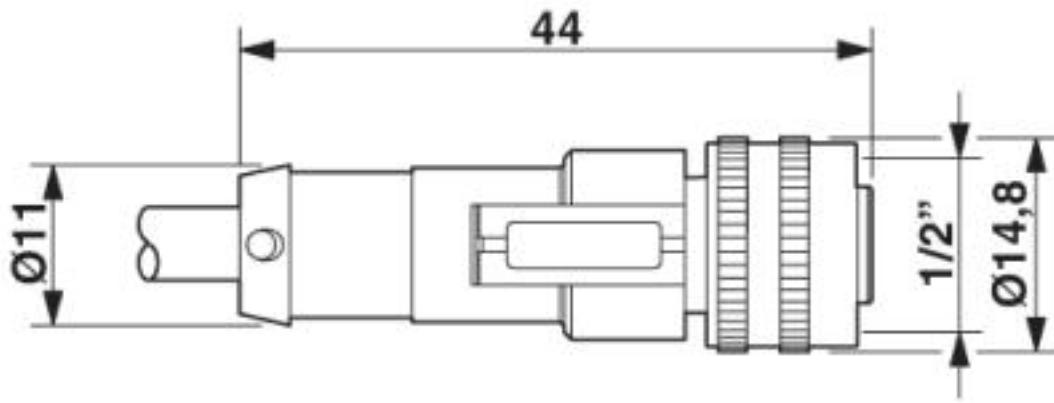
Dimensional drawing



1/2"-20UNF plug, angled

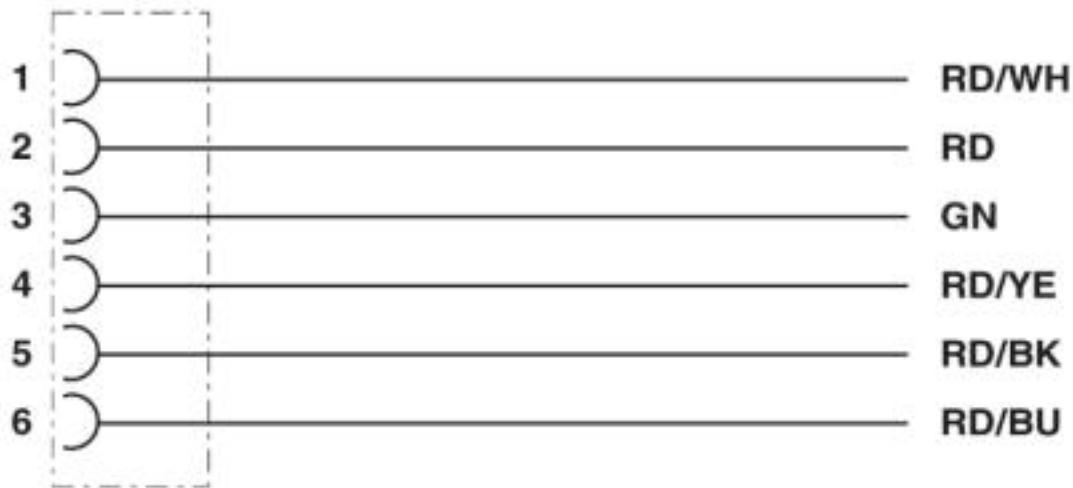
## Sensor/actuator cable - SAC-6P-MICMR-MICFS/.../... - 1547494

Dimensional drawing



1/2"-20UNF socket, straight

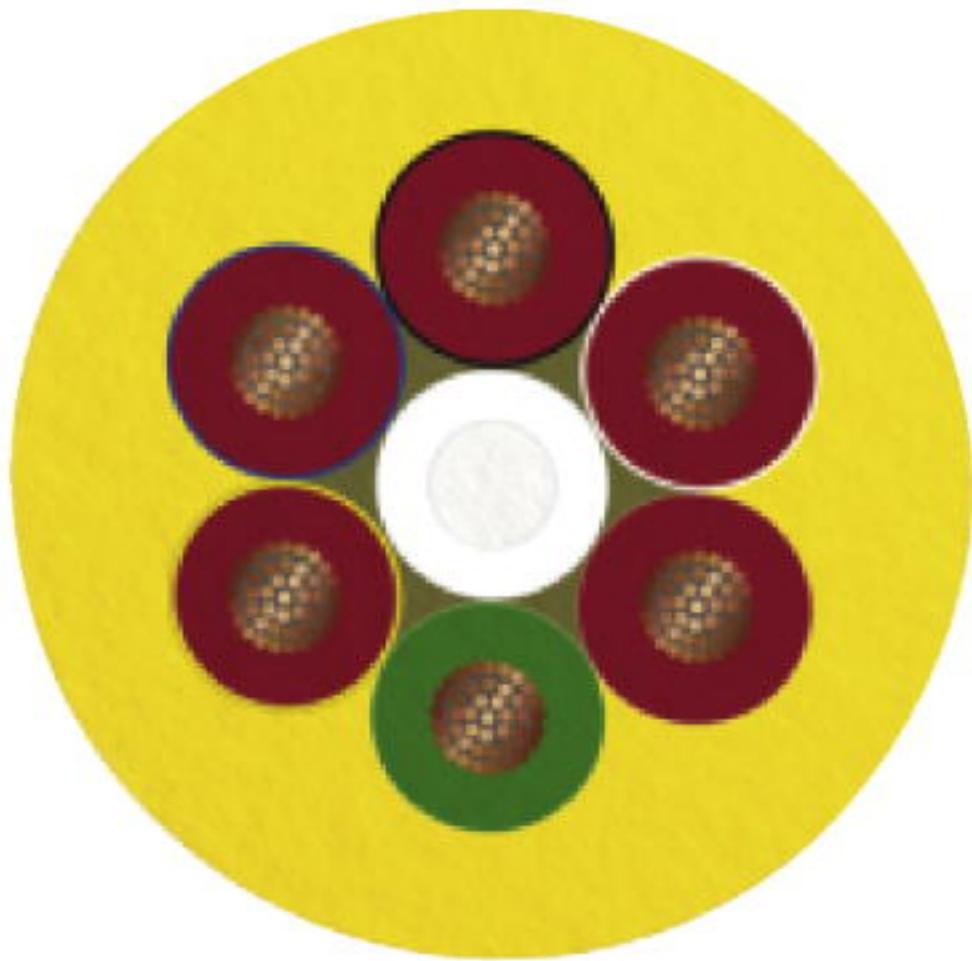
Circuit diagram



Contact assignment of 1/2" UNF plugs / sockets

## Sensor/actuator cable - SAC-6P-MICMR-MICFS/.../... - 1547494

Cable cross section



PVC yellow 105 °C [542]

### Classifications

eCl@ss

eCl@ss 4.0	27060300
eCl@ss 4.1	27060300
eCl@ss 5.0	27061800
eCl@ss 5.1	27061800
eCl@ss 6.0	27279200
eCl@ss 7.0	27279218
eCl@ss 8.0	27279218

# Sensor/actuator cable - SAC-6P-MICMR-MICFS/.../... - 1547494

## Classifications

### eCl@ss

eCl@ss 9.0	27060311
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### ETIM

ETIM 2.0	EC000830
ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855
ETIM 6.0	EC001855
ETIM 7.0	EC001855

### UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501
UNSPSC 19.0	31251501
UNSPSC 20.0	31251501
UNSPSC 21.0	31251501

## Approvals

### Approvals

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### Approvals

UL Listed / cUL Listed / cULus Listed

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### Ex Approvals

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### Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 221474
Nominal voltage UN		125 V	
Nominal current IN		4 A	

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### Approvals

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cULus Listed	
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### Accessories

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#### Conductor marking

#### Insert label - PABA WH/23 - 1013779



Insert label, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 1.5 ... 35 mm, lettering field size: 23 x 4 mm, Number of individual labels: 20

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#### Insert label - PABA YE/23 - 1013782



Insert label, Strip, yellow, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 1.5 ... 35 mm, lettering field size: 23 x 4 mm, Number of individual labels: 20

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#### Marker pen

#### Marker pen - B-STIFT - 1051993



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

## Sensor/actuator cable - SAC-6P-MICMR-MICFS/.../... - 1547494

### Accessories

#### Screwdriver tools

##### Adapter insert - TSD-M SAC-BIT ADAPTER - 1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

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##### Tool - SAC BIT M12-D15 - 1208432



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a knurl diameter of 15 mm, for 4 mm hexagonal drive

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### Torque tool

#### Torque screwdriver - TSD 04 SAC - 1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

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#### Torque screwdriver - TSD-M 1,2NM - 1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm