

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. |
|-------------------|--|

Dimensions

| | |
|-----------------|-----------------------------|
| Length of cable | Free input (0.2 ... 40.0 m) |
|-----------------|-----------------------------|

Ambient conditions

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

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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 | ≥ 100 MΩ |
| Coding | C - dual keyway |
| Status display | No |
| Protective circuit/component | unwired |
| Overvoltage category | II |
| Degree of pollution | 3 |
| Test voltage | 800 V |
| Insertion/withdrawal cycles | ≥ 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. |
|------|---|

Standards and Regulations

| | |
|--|----|
| Flammability rating according to UL 94 | HB |
|--|----|

PVC yellow 105 °C [542]

| | |
|------------------------------------|--|
| Cable type | PVC yellow 105 °C |
| Cable type (abbreviation) | 542 |
| Conductor cross section | 0.34 mm² |
| AWG signal line | 22 |
| Conductor structure signal line | 42x 0.10 mm |
| Core diameter including insulation | 1.55 mm ±0.05 mm |
| Thickness, insulation | ≥ 0.38 mm (Core insulation) |
| | ≥ 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 | $\geq 100 \text{ M}\Omega \cdot \text{km}$ |
| Conductor resistance | $\leq 58 \text{ }\Omega/\text{km}$ |
| Nominal voltage, cable | 300 V |
| Test voltage, cable | 3000 V |

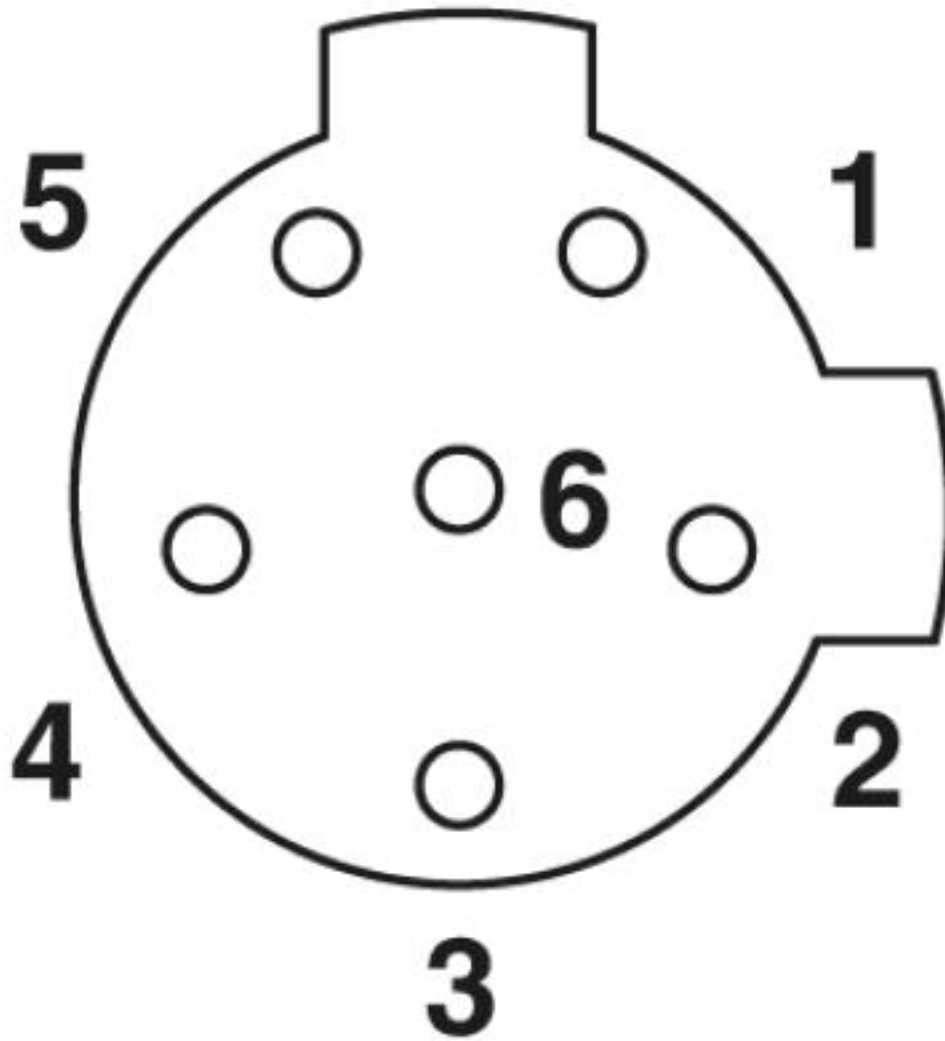
Environmental Product Compliance

| | |
|------------|---|
| 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

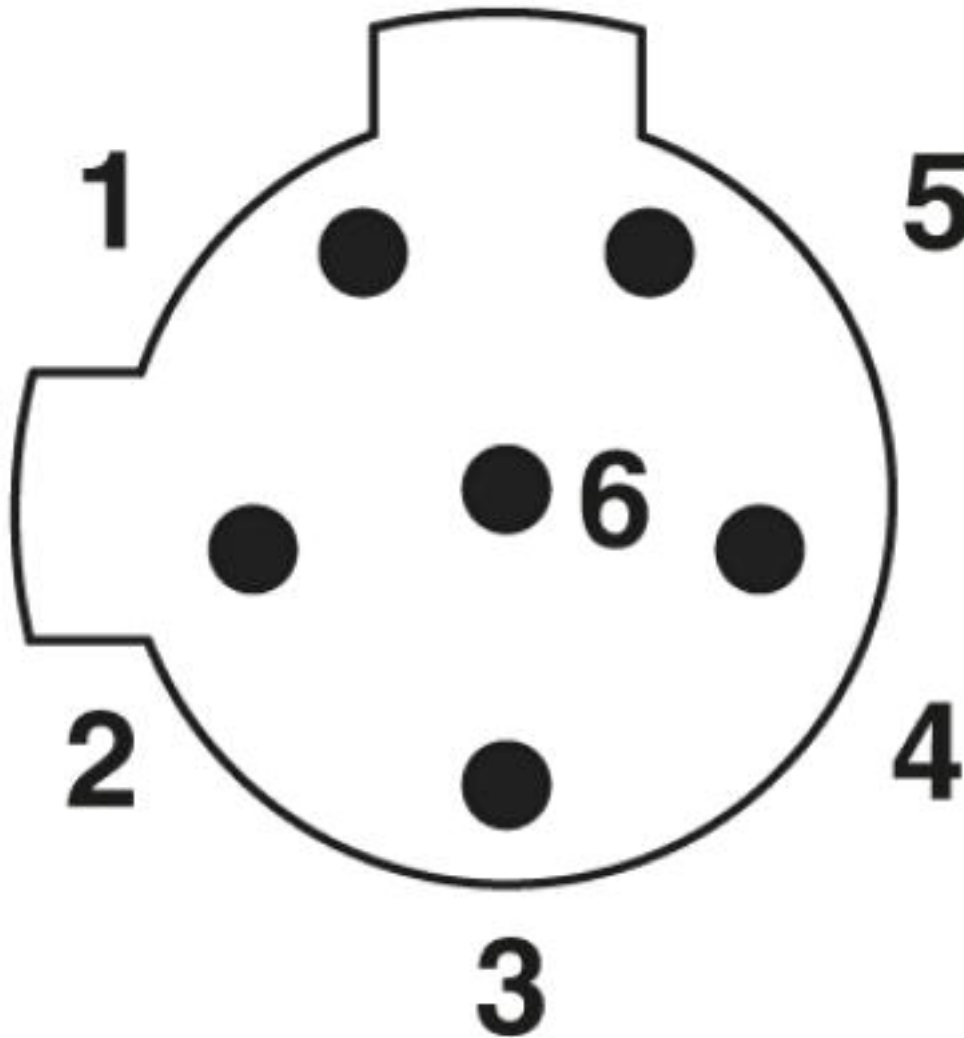
Schematic diagram



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

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

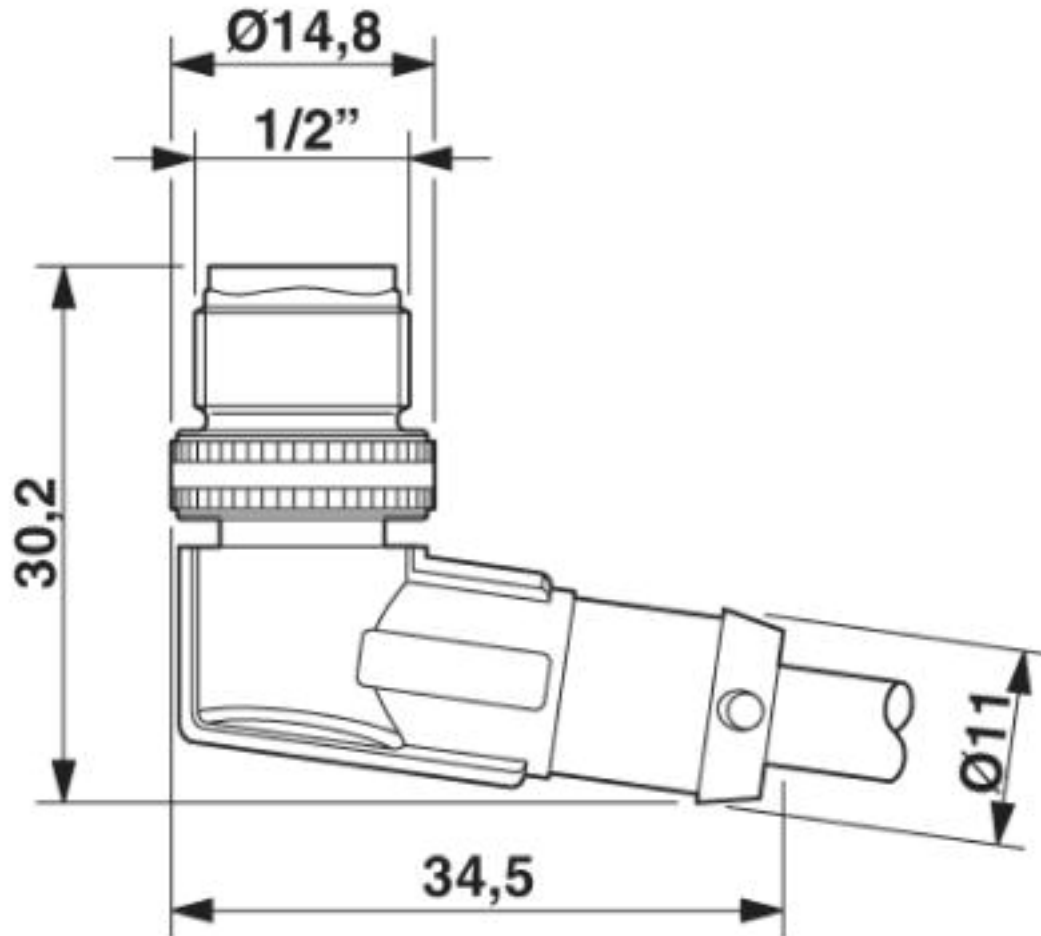
Schematic diagram



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

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

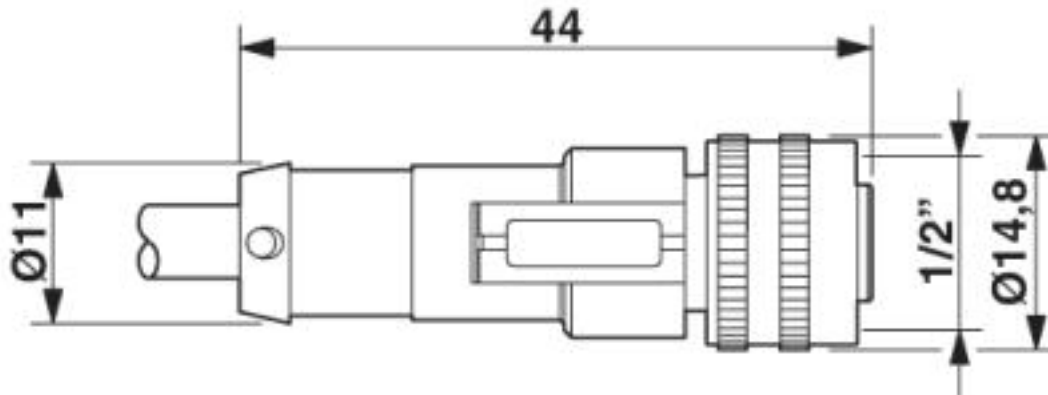
Dimensional drawing



1/2"-20UNF plug, angled

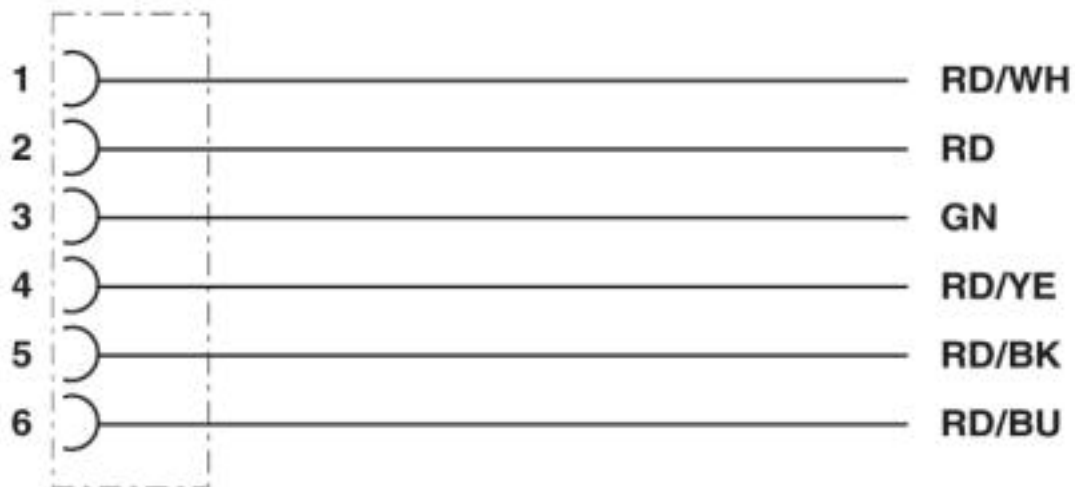
Sensor/actuator cable - SAC-6P-MICMR-MICFS/.../... - 1547494

Dimensional drawing



1/2"-20UNF socket, straight

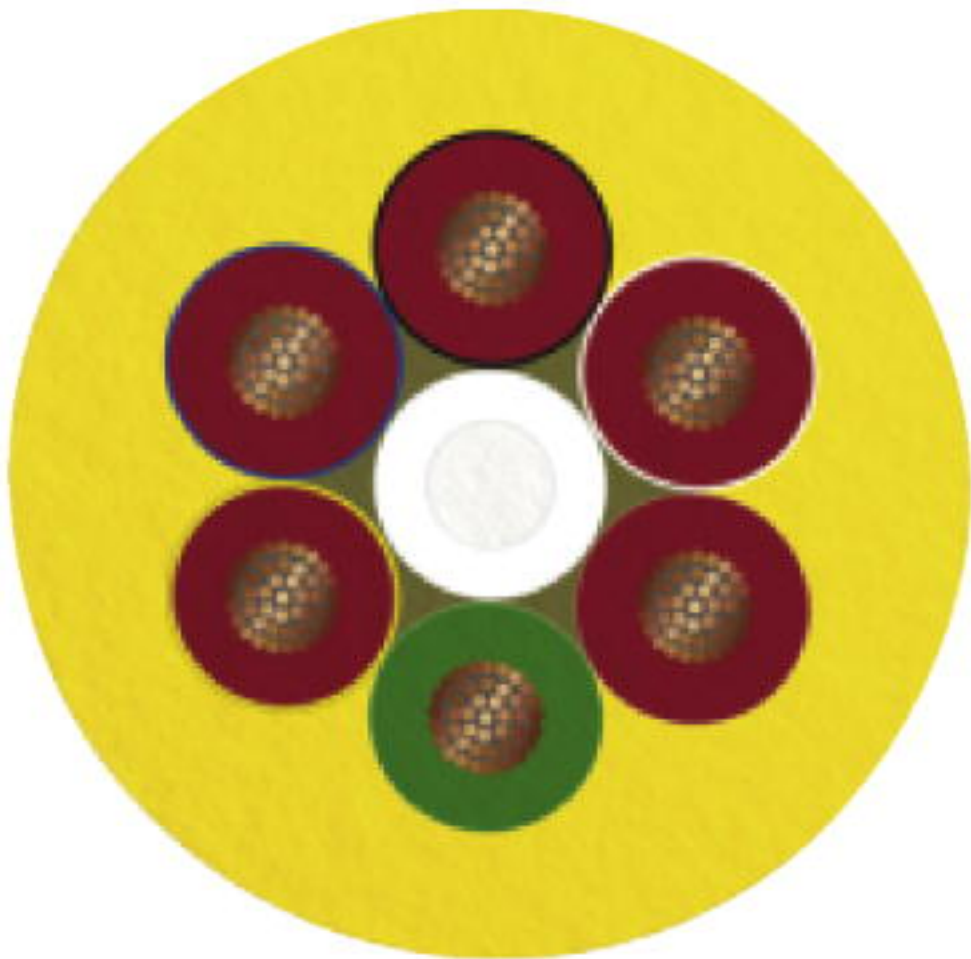
Circuit diagram



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 |

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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 9.0 | 27060311 |
|------------|----------|

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

Approvals

UL Listed / cUL Listed / cULus Listed


Ex Approvals


Approval details

| | | | |
|--------------------|---|---|---------------|
| UL Listed |  | http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm | FILE E 221474 |
| Nominal voltage UN | 125 V | | |
| Nominal current IN | 4 A | | |

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Approvals

| | | | |
|--------------------|---|---|---------------|
| cUL Listed |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 221474 |
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| Nominal current IN | 4 A | | |

| | |
|--------------|---|
| cULus Listed |  |
|--------------|---|

Accessories

Accessories

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

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

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

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

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

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



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